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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Masahichi KISHI

Serial No.: 09/700,384

Filed: January 2, 2001

For: **CODE DIVISION MULTIPLE ACCESS (CDMA)
TRANSMISSION SYSTEM**

Group: 2662

Examiner: John Pezzlo

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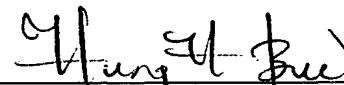
July 15, 2004

Sir:

Applicants submit herewith thirty-eight (38) sheets of Formal Drawings in connection with the above-identified application.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

By: 
Hung H. Bui
Registration No. 40,415

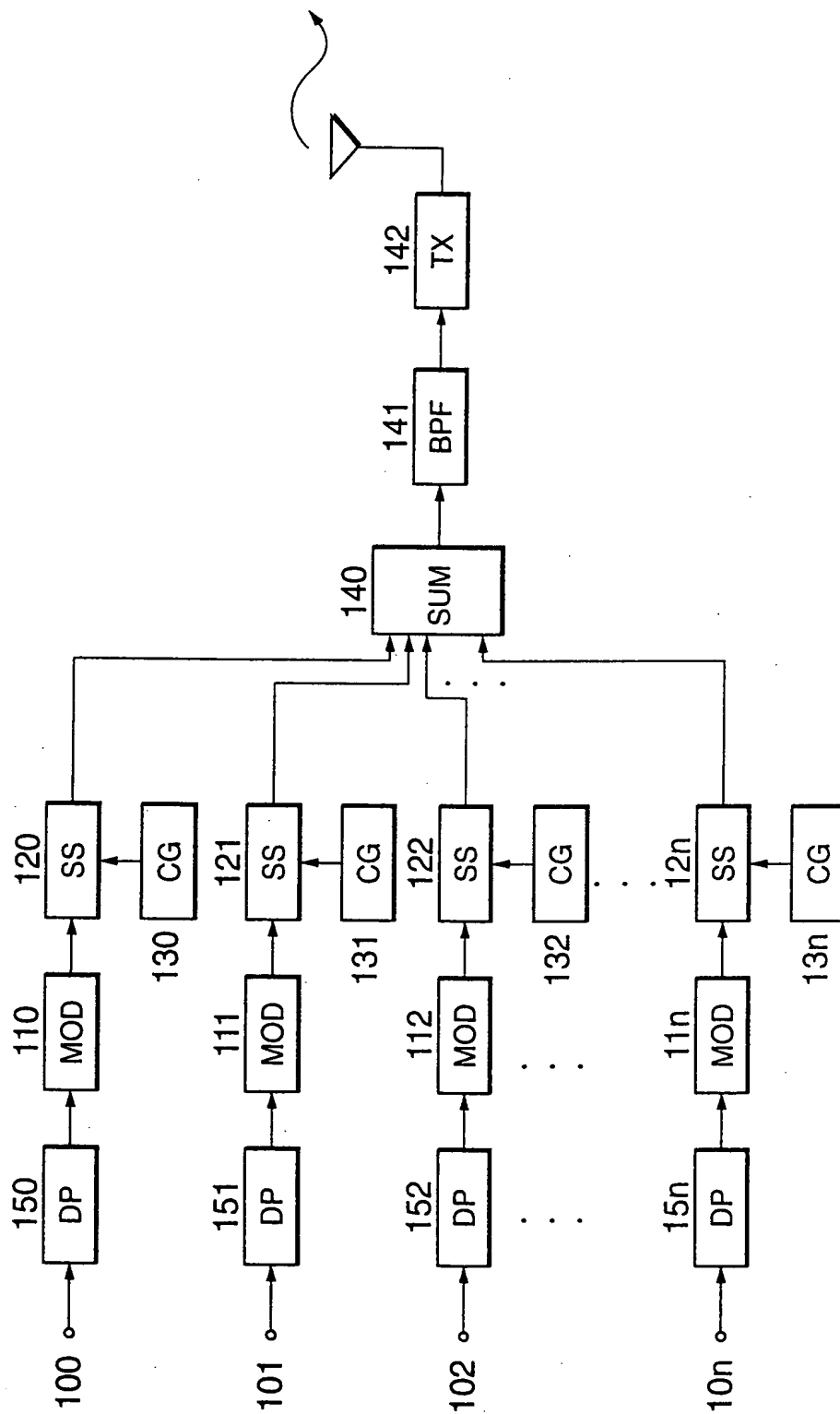
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FIG. 1

EXAMPLE OF A CONFIGURATION OF DIFFERENTIAL CDMA TRANSMITTER





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FIG. 2

EXAMPLE OF A DETAILED CONFIGURATION OF
DIFFERENTIAL CODING CIRCUIT (DP)

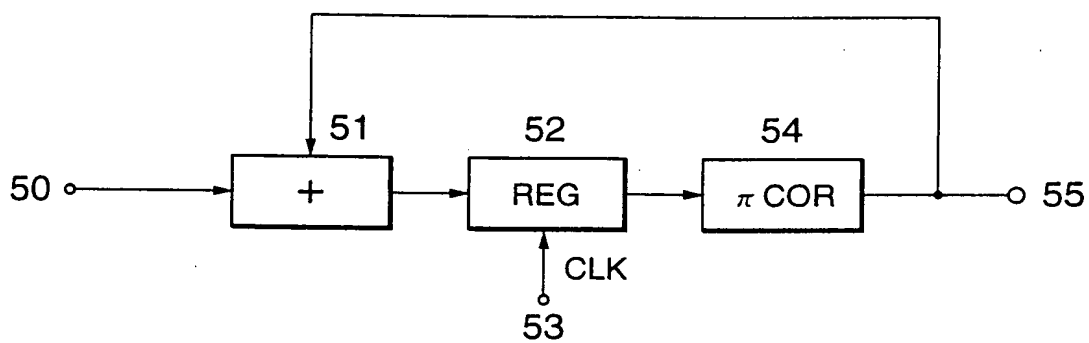


FIG. 3

INPUT/OUTPUT CHARACTERISTICS OF π CORRECTOR (π COR)

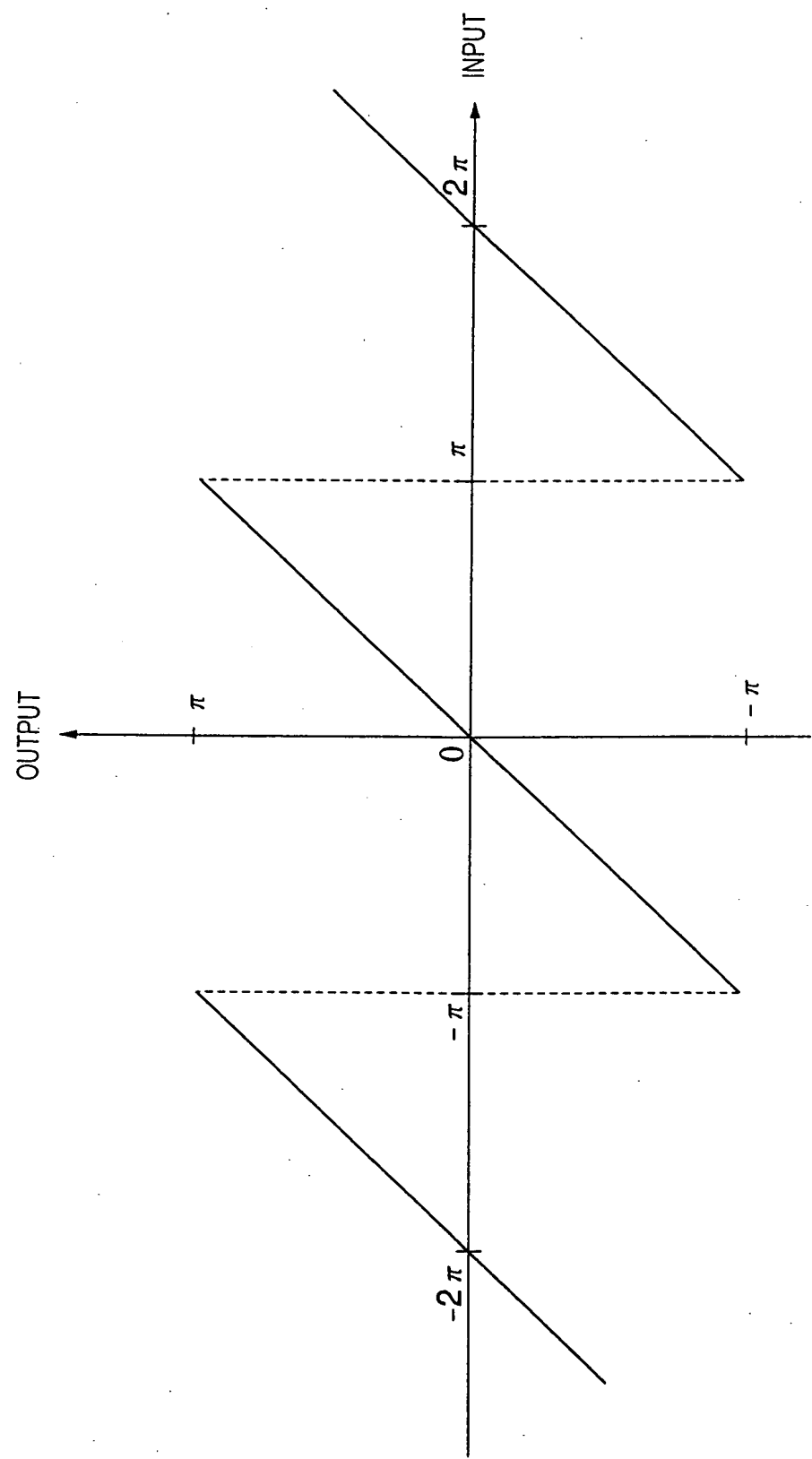


FIG. 4

EXAMPLE OF A CONFIGURATION OF DIFFERENTIAL CDMA RECEIVER

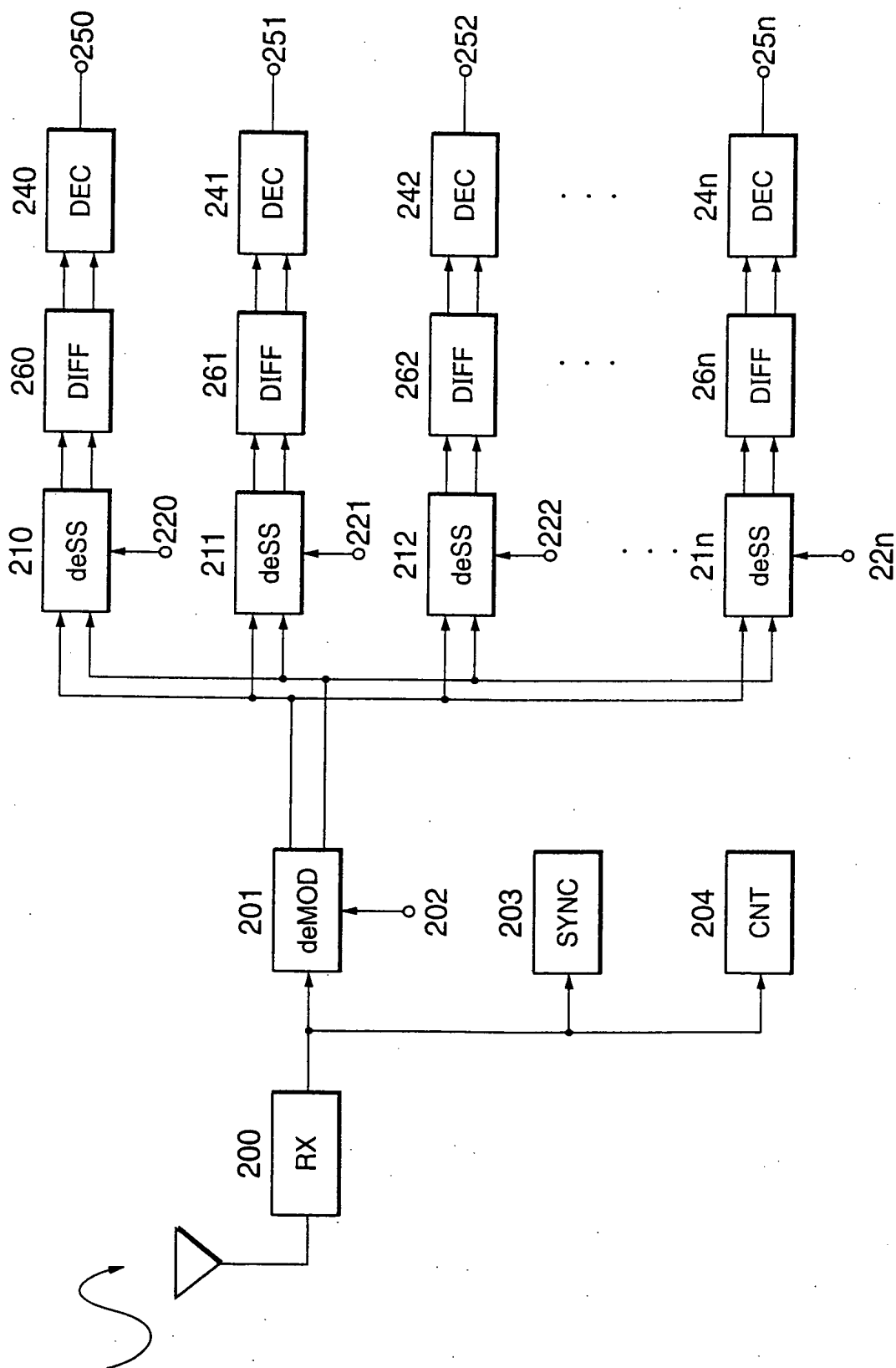


FIG. 5

EXAMPLE OF A DETAILED CONFIGURATION OF DIFFERENTIAL CIRCUIT (DIFF)

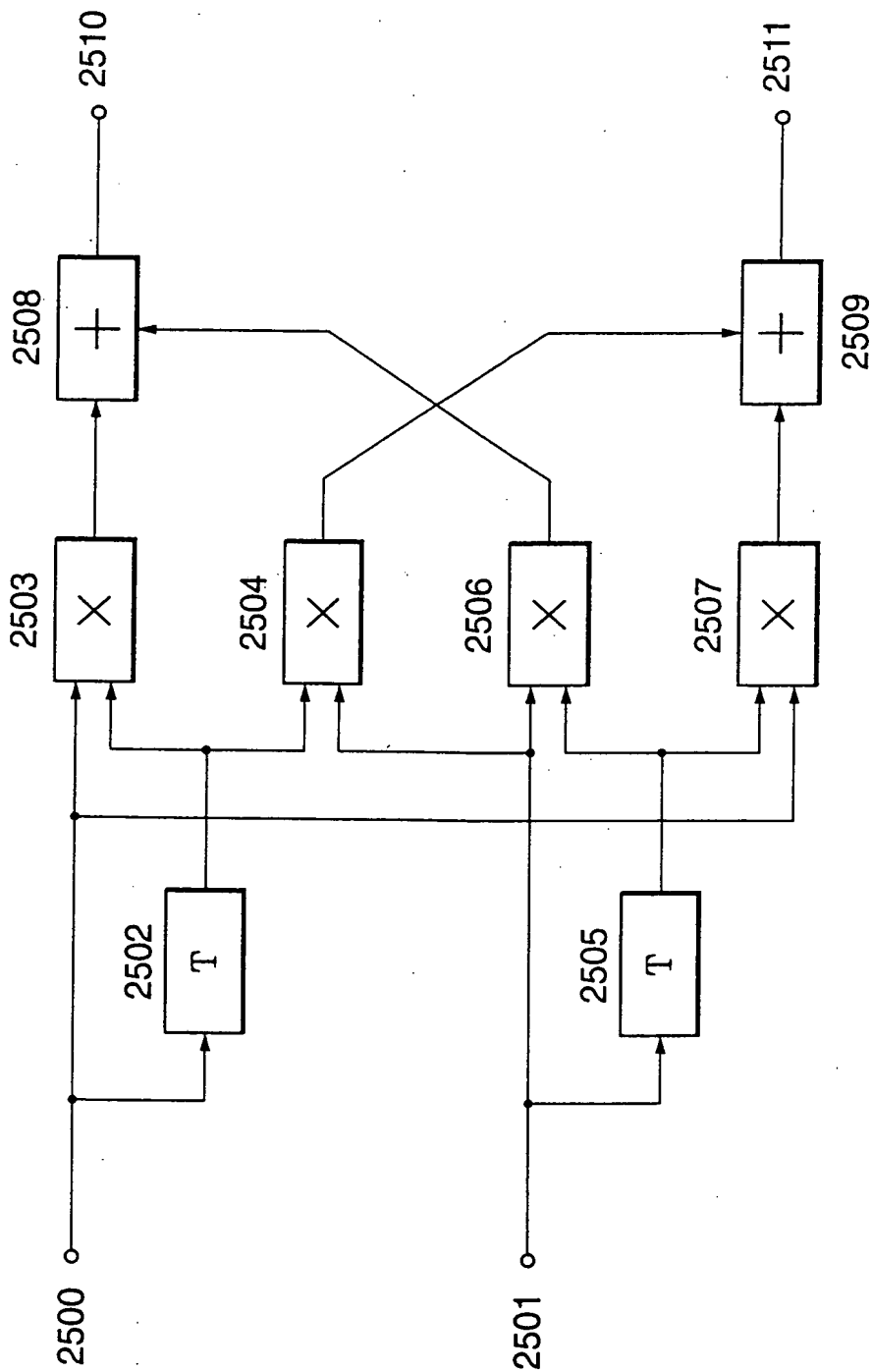


FIG. 6

SCHEMATIC VIEW OF INFORMATION PHASE

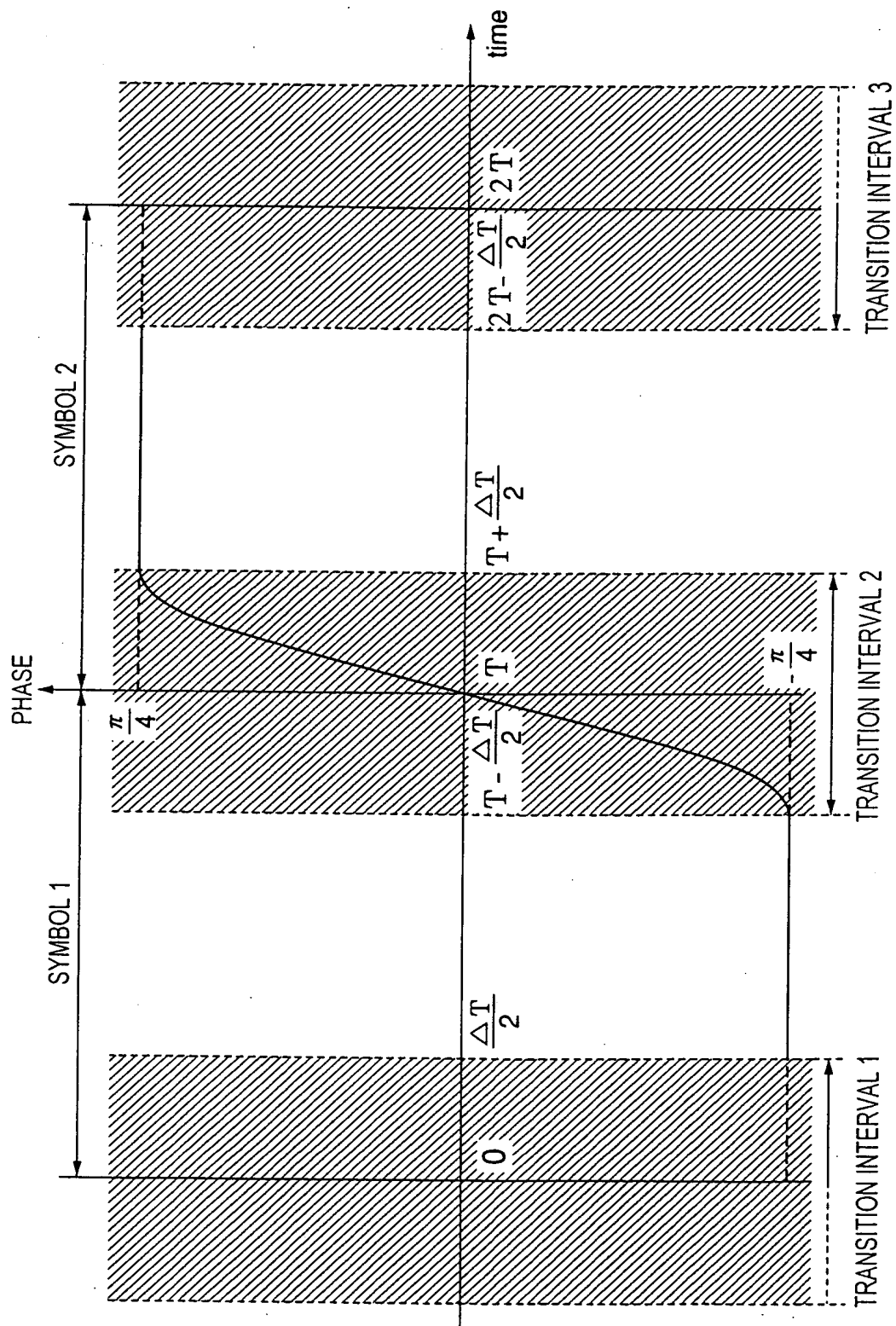
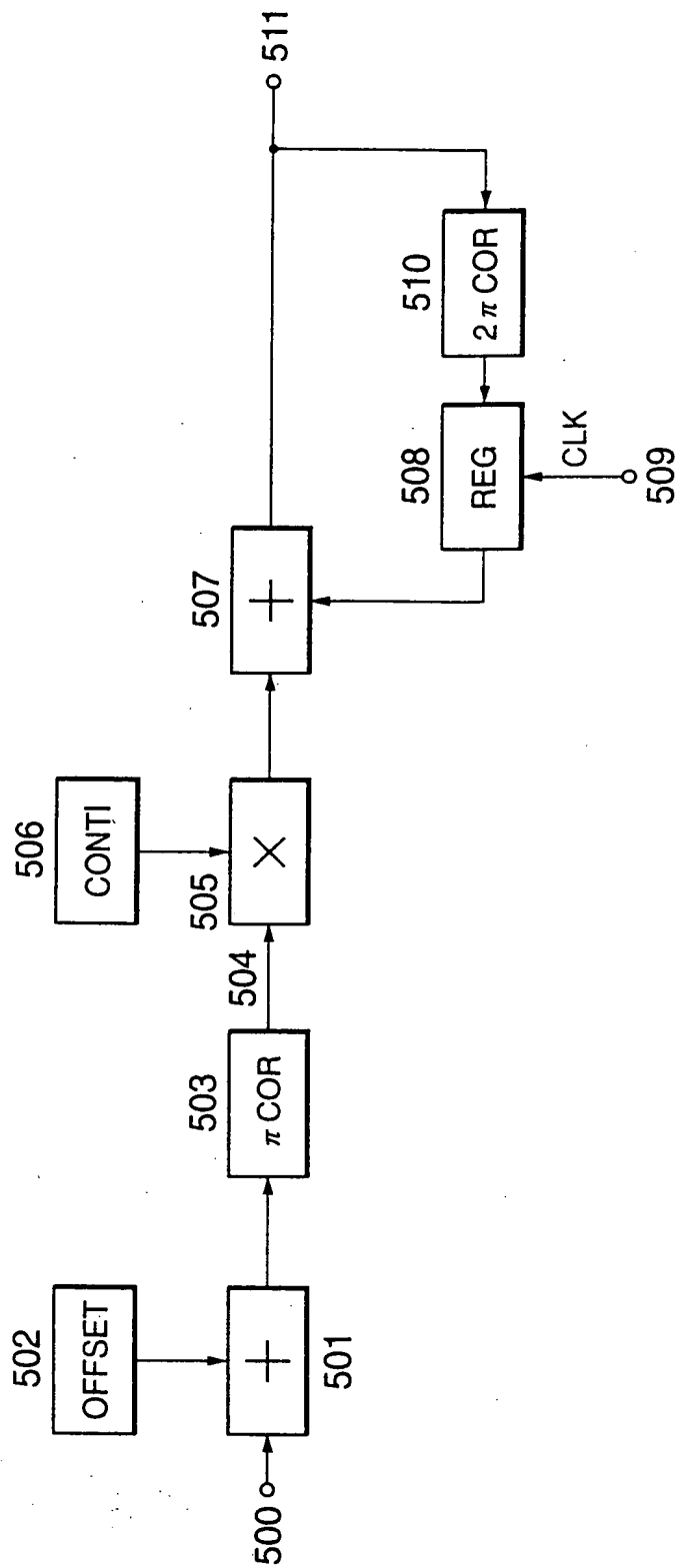


FIG. 7

EXAMPLE OF A DETAILED CONFIGURATION OF
PHASE CONTINUOUS DIFFERENTIAL CODING CIRCUIT (DP-CP)





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FIG. 8

TIME RESPONSE OF CONTINUATING CIRCUIT (CONTI)

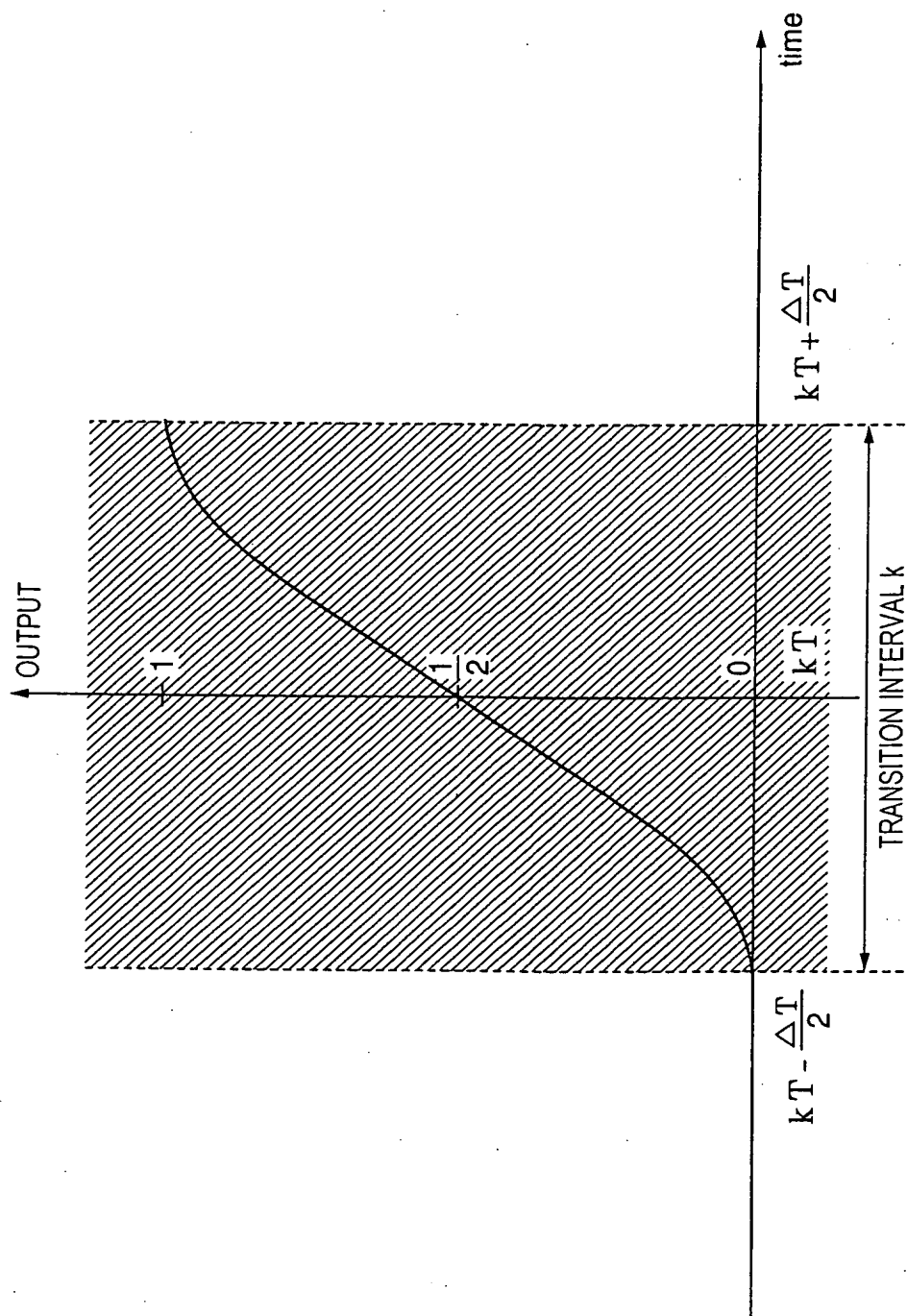


FIG. 9

EXAMPLE OF A DETAILED CONFIGURATION OF PHASE CONTINUATING CIRCUIT (CP)

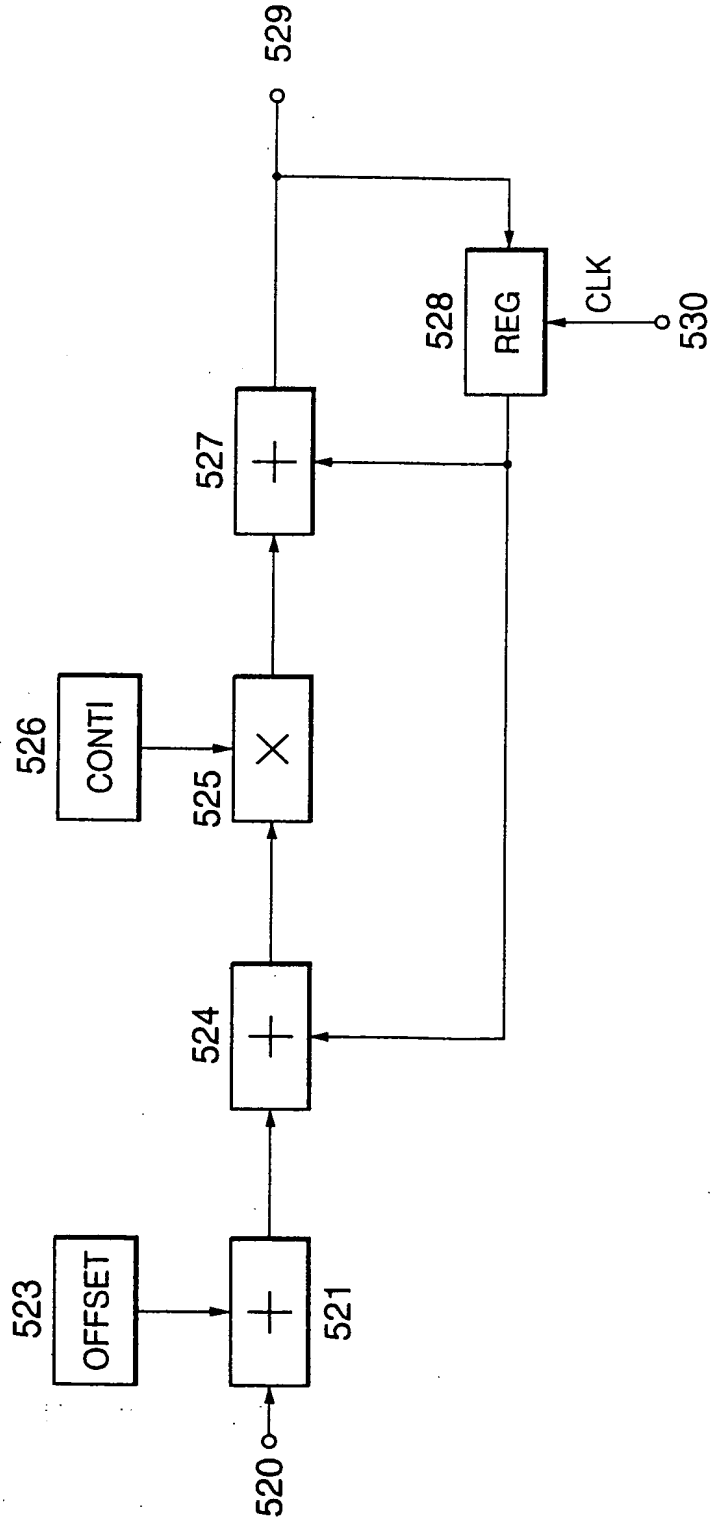


FIG. 10

SCHEMATIC VIEW OF PRIMARY MODULATED WAVEFORM

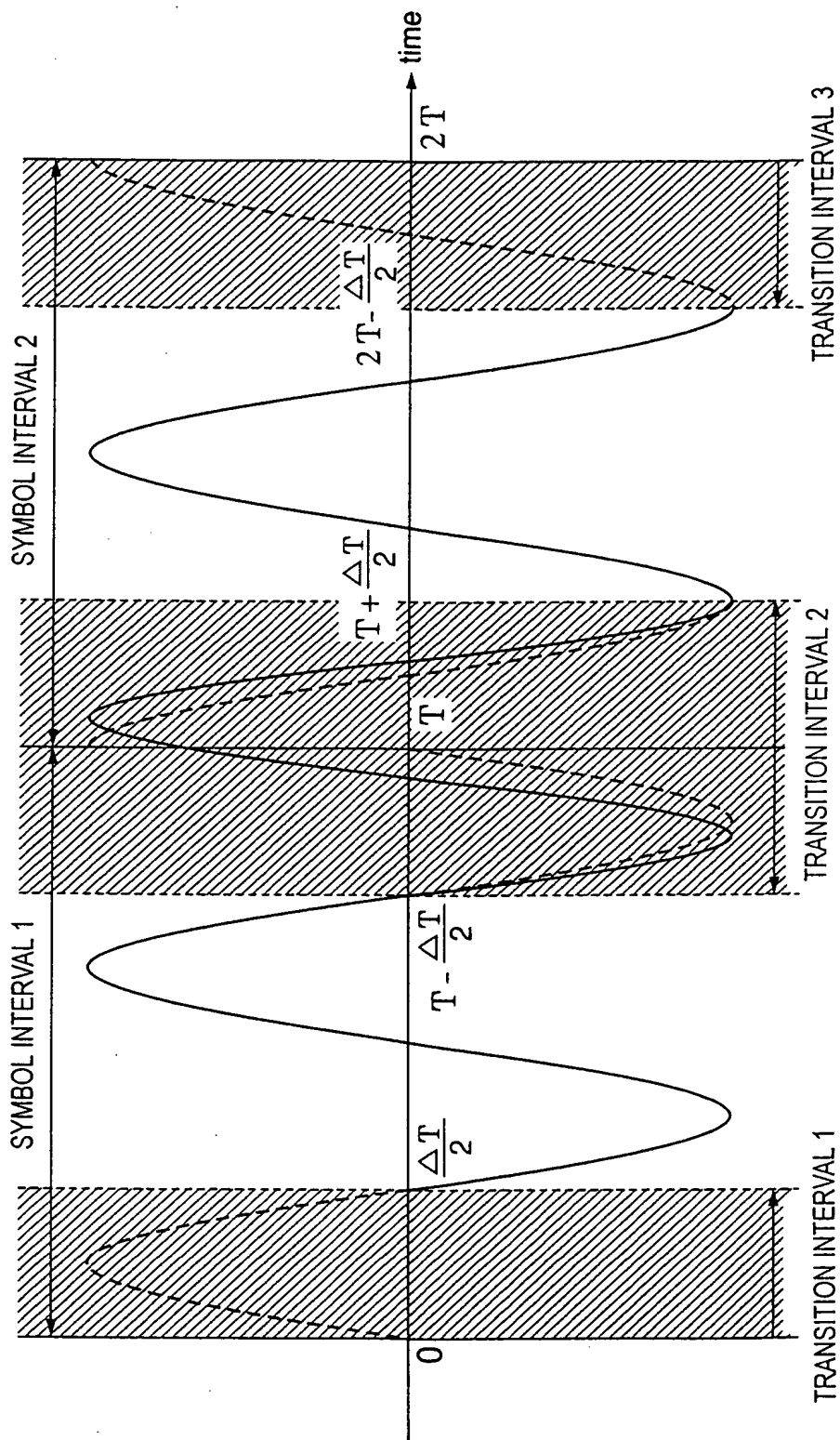
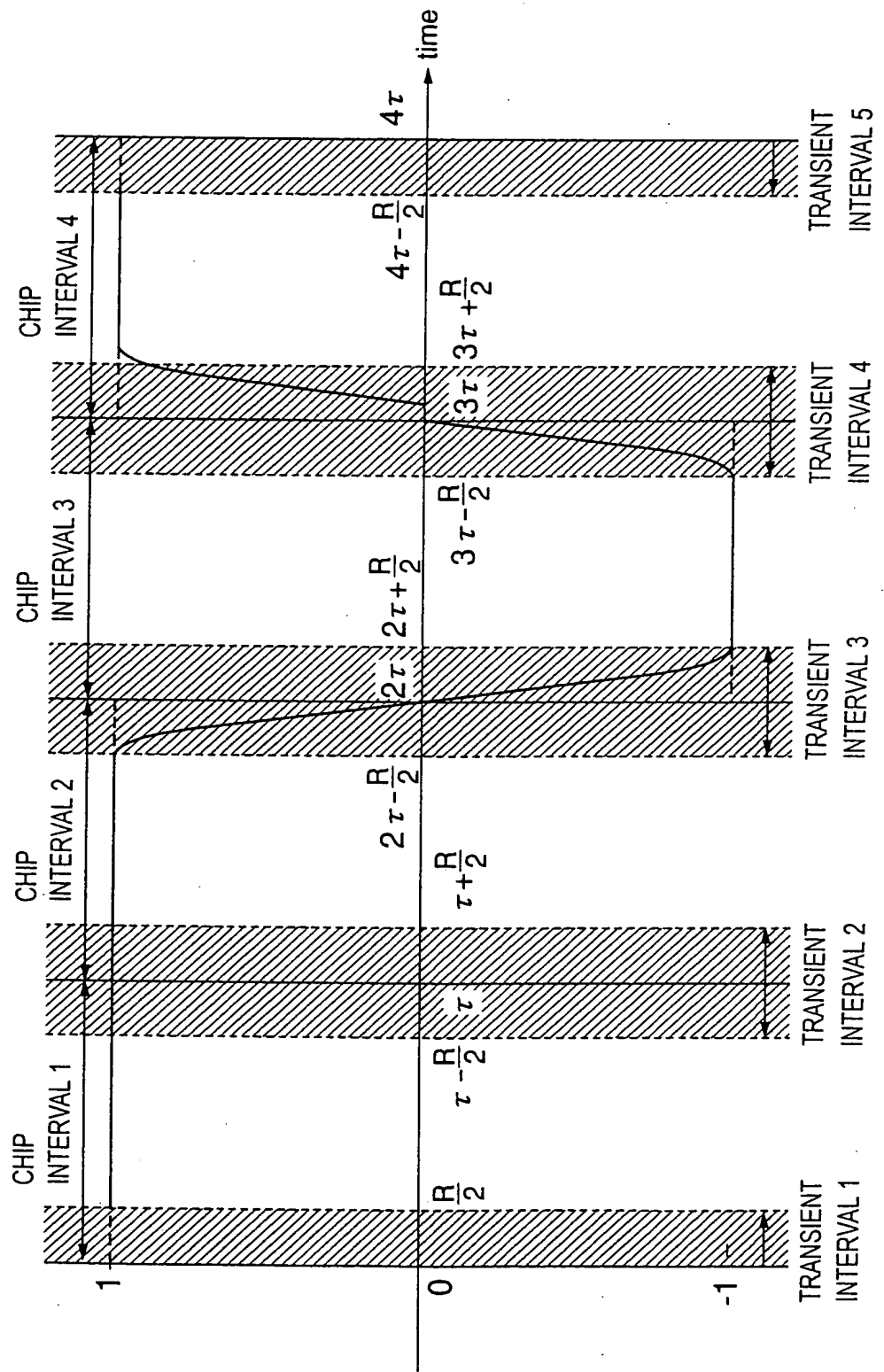


FIG. 11

SCHEMATIC VIEW OF SPREAD CODE SEQUENCE WAVEFORM





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FIG. 12

EXAMPLE OF A DETAILED CONFIGURATION OF SPREAD CODE SEQUENCE WAVEFORM
CONTINUATING CIRCUIT (CODE-CS)

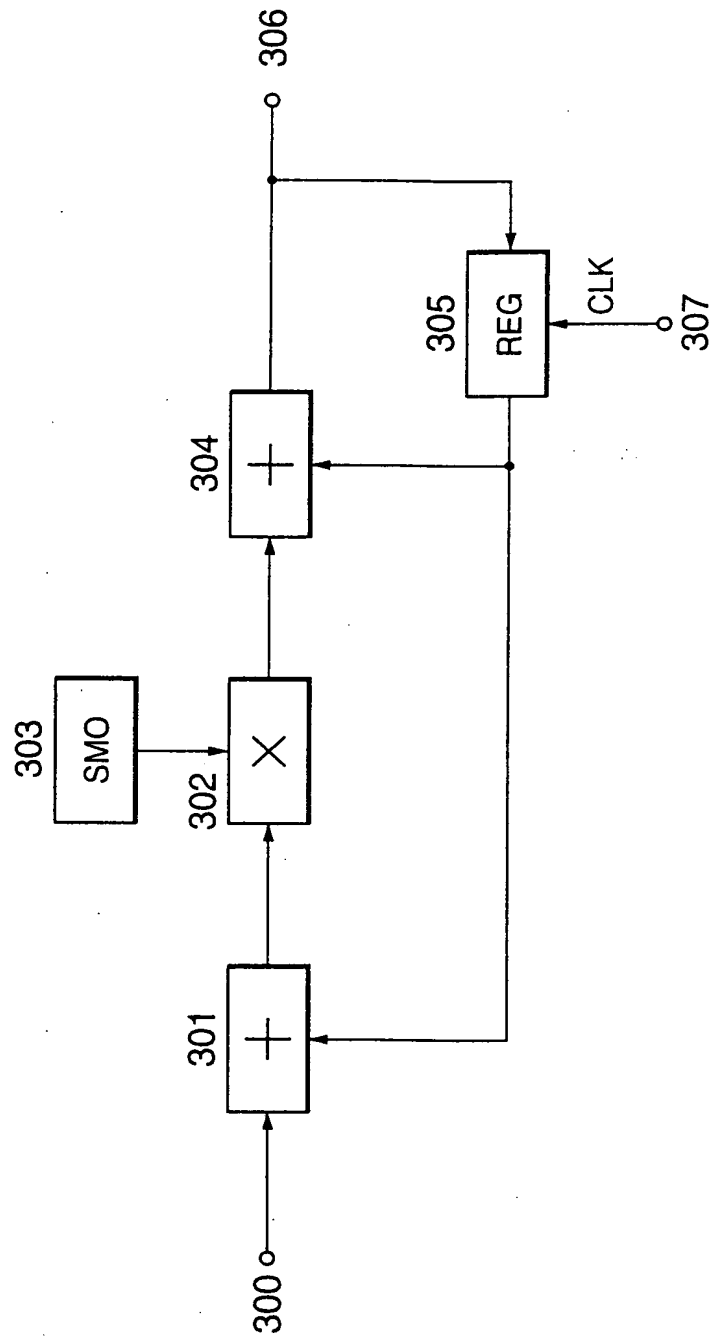
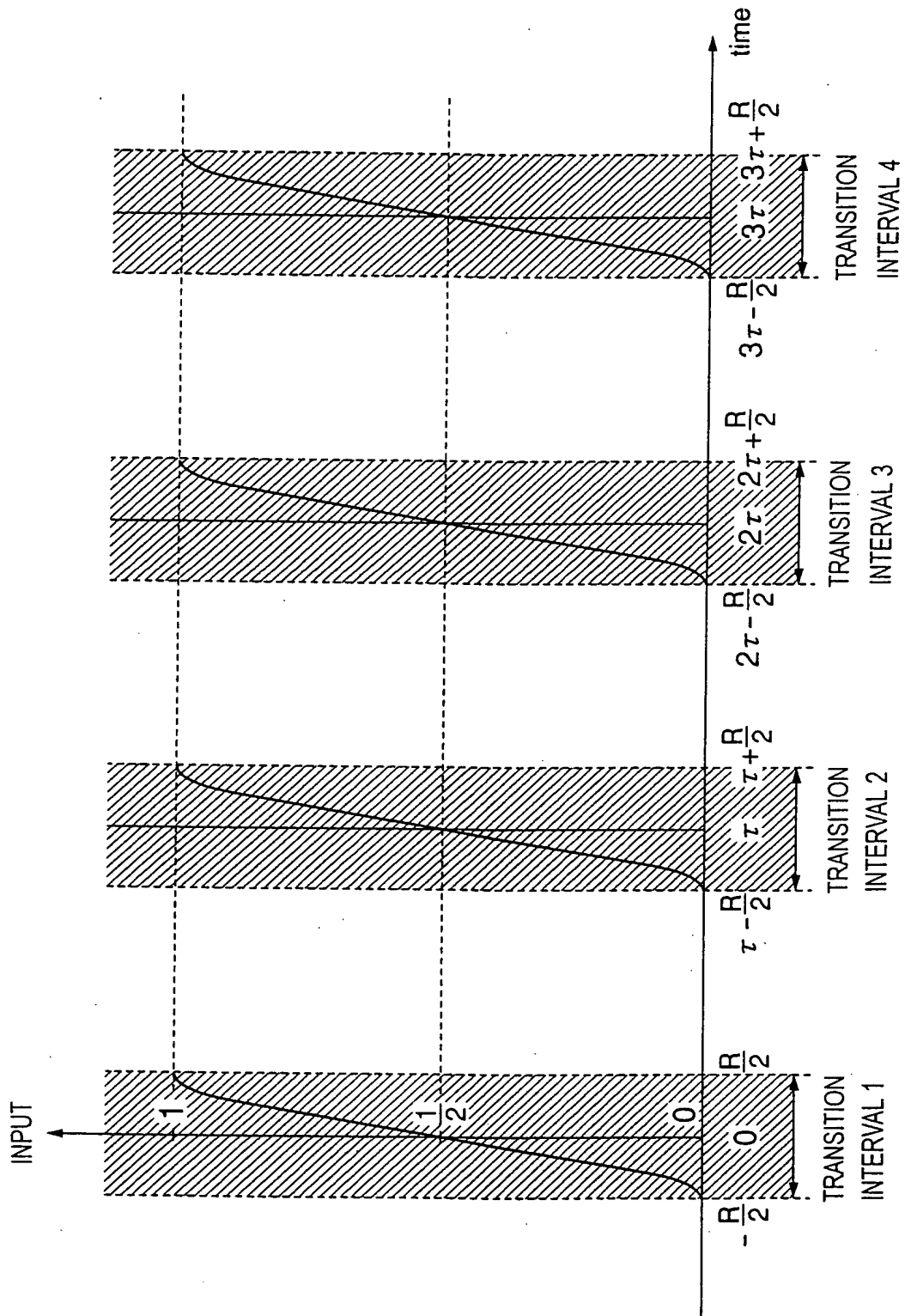


FIG. 13

EXAMPLE OF TIME RESPONSE WAVEFORM OF SMOOTHER (SMO)





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FIG. 14

EXAMPLE OF VIRTUAL SEGMENT INTERLEAVE STRUCTURE

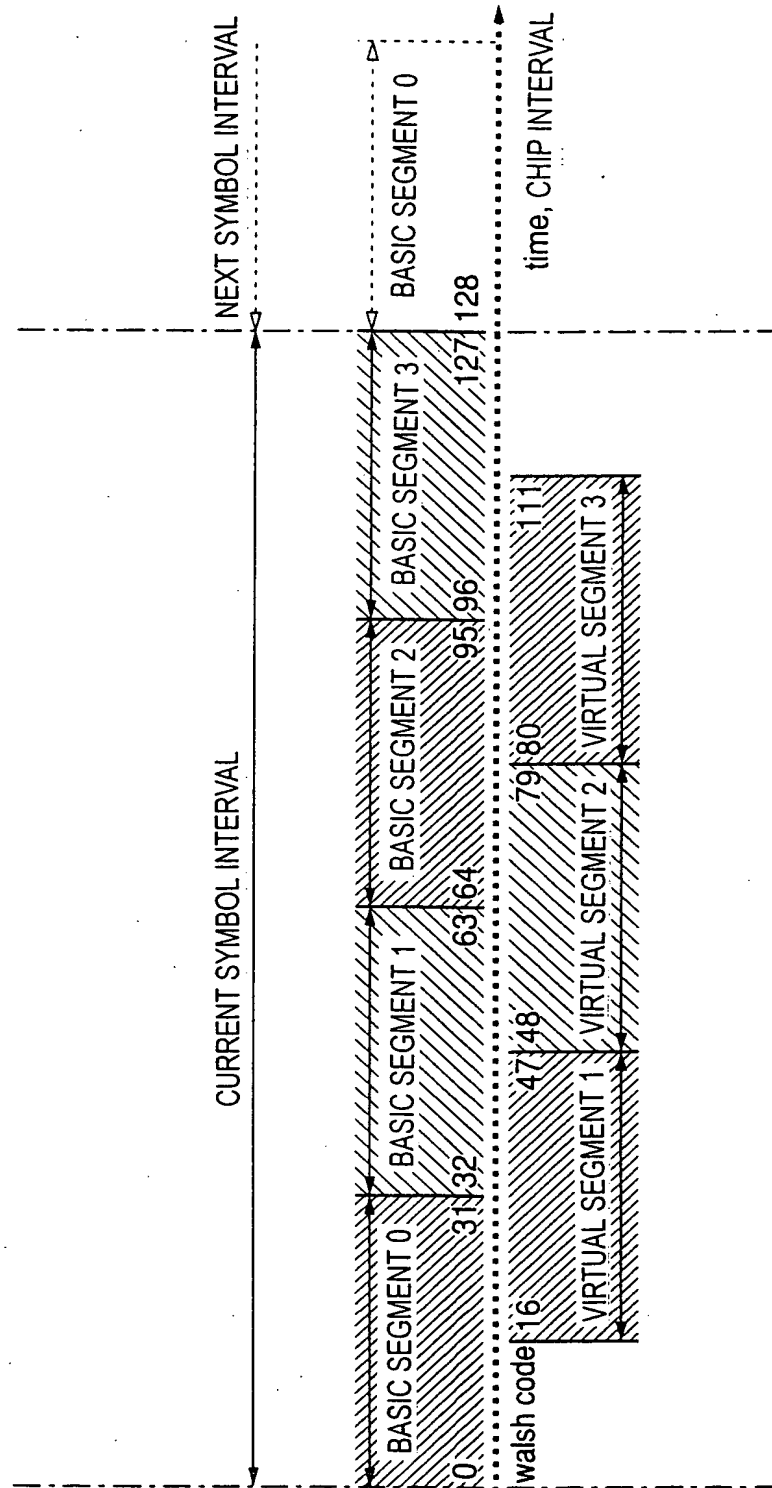


FIG. 15

EXAMPLE OF A DETAILED CONFIGURATION OF VIRTUAL SEGMENT INTERLEAVE DESPREADING CIRCUIT (dSS-VSI)

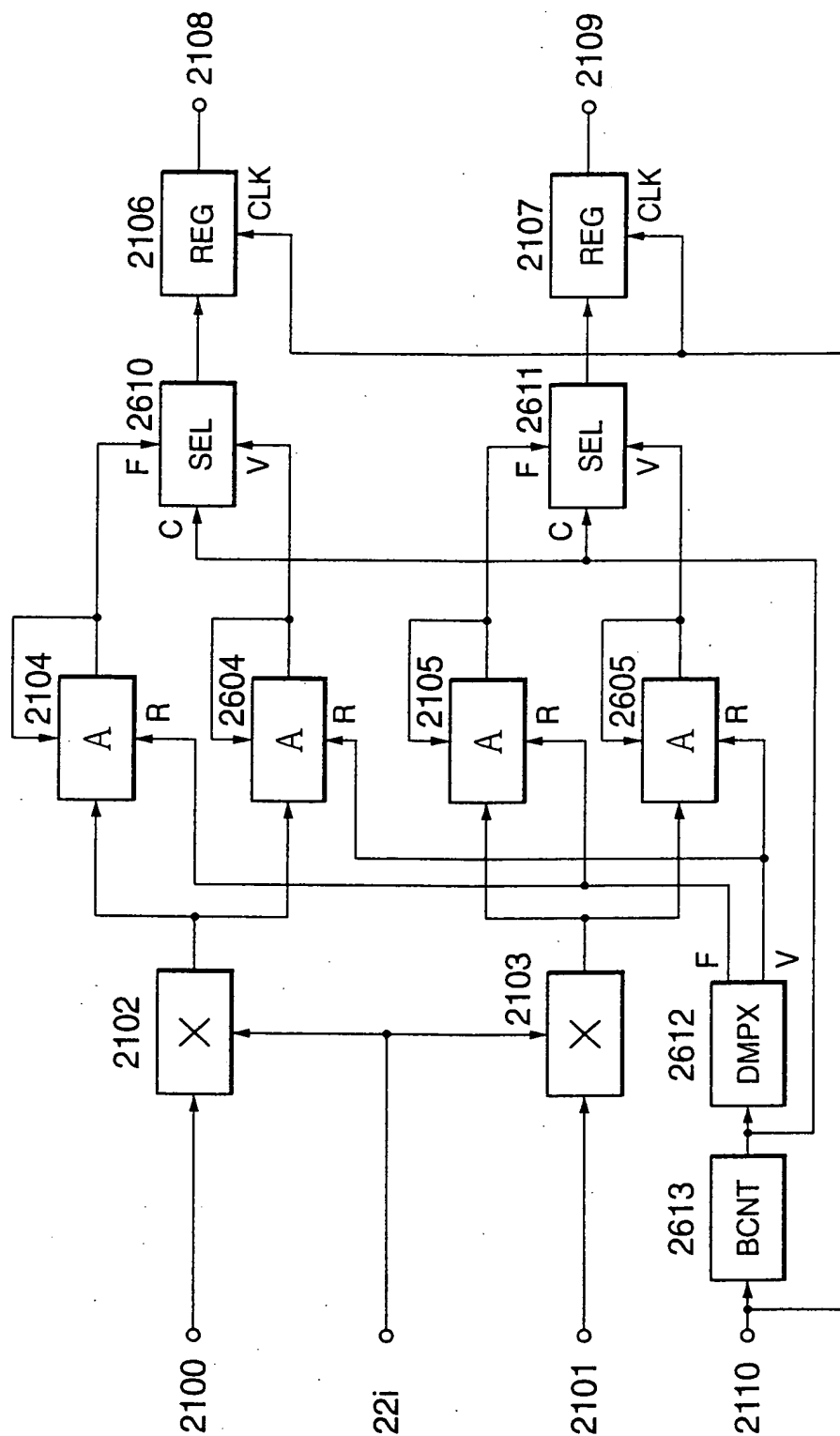




FIG. 16

TRANSMISSION CHARACTERISTICS IN STATIONARY TELEPHONE MODE OF
DIFFERENTIAL CDMA TRANSMISSION SYSTEM

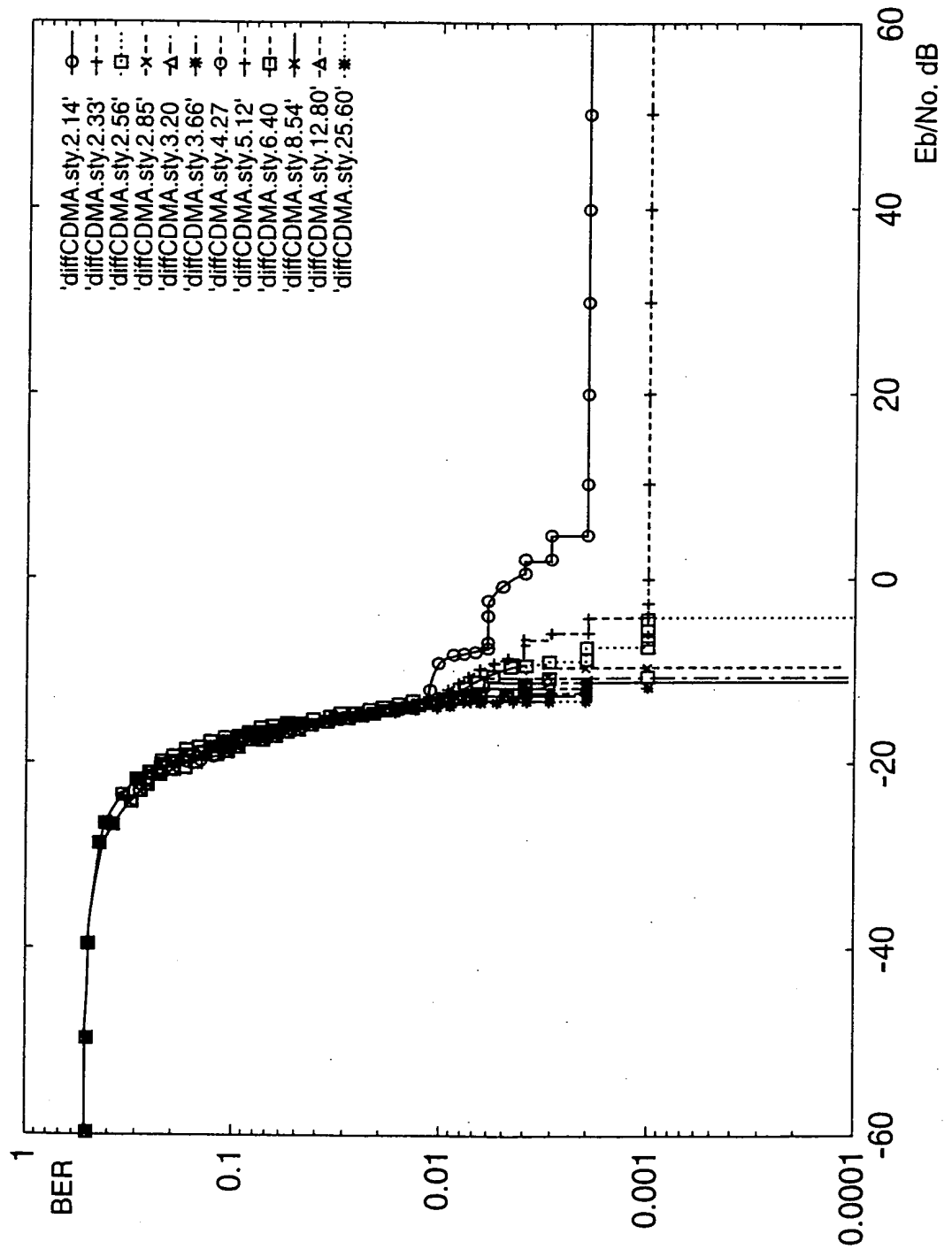




FIG. 17

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
DIFFERENTIAL CDMA TRANSMISSION SYSTEM

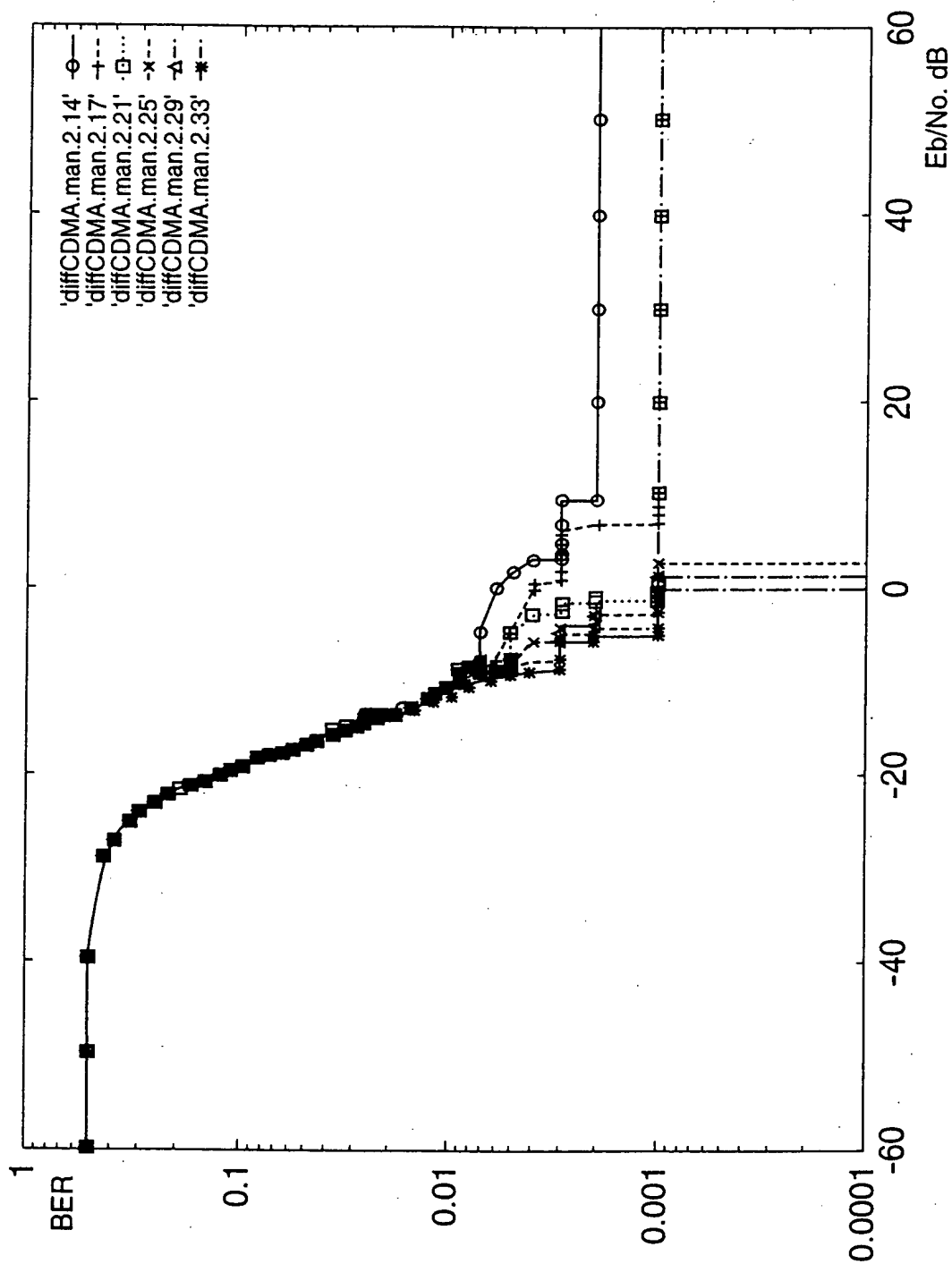


FIG. 19

SCHEMATIC POWER SPECTRUM

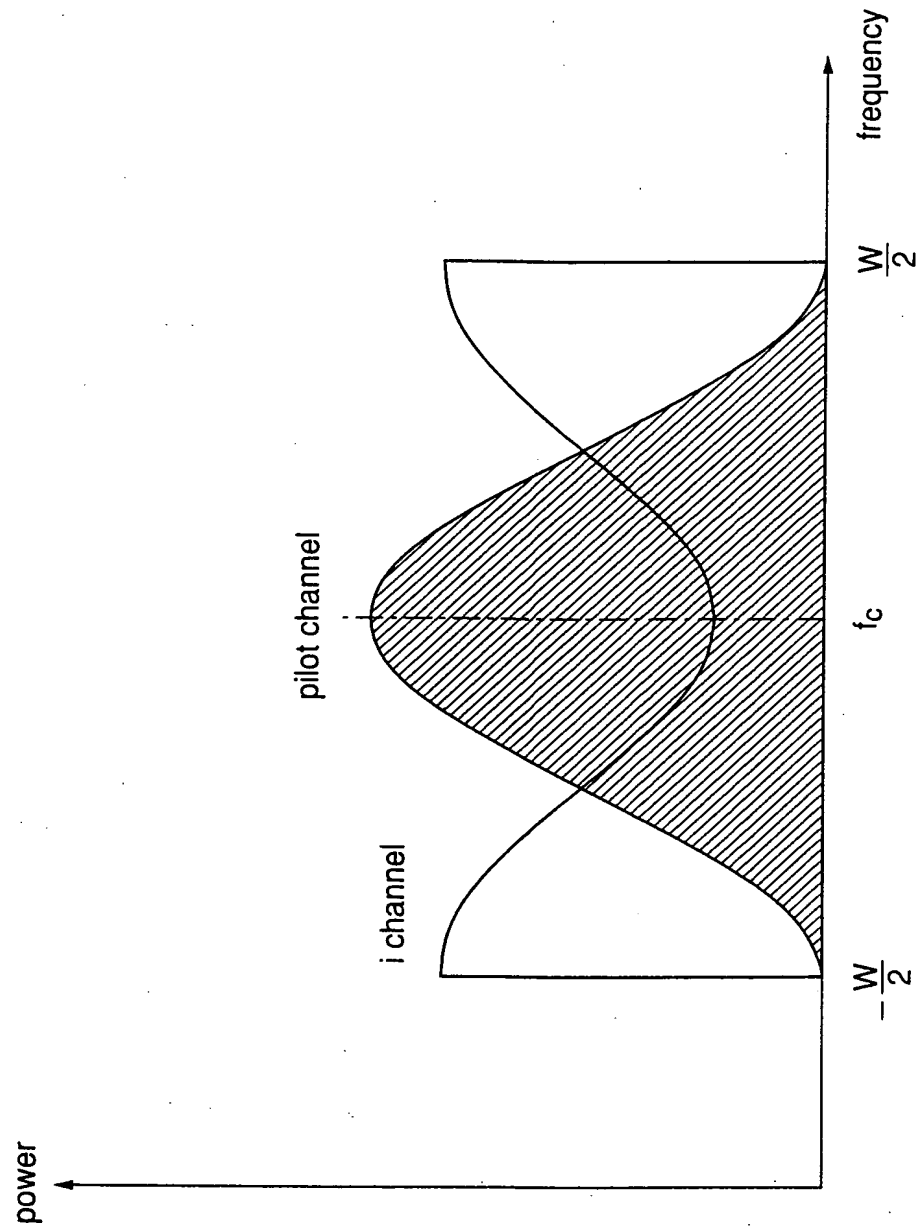


FIG. 20

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
PHASE CONTINUOUS PILOT CDMA TRANSMISSION SYSTEM

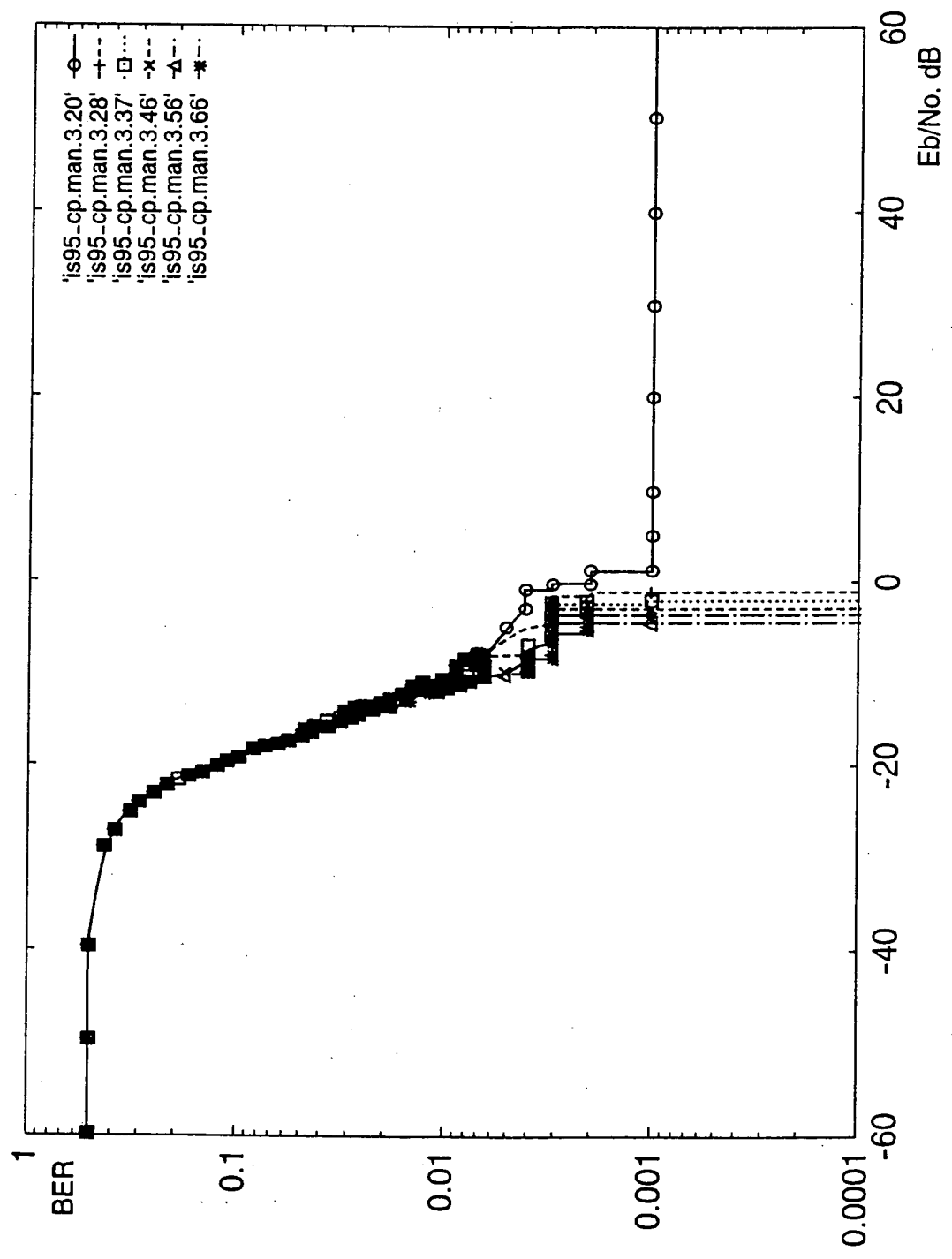
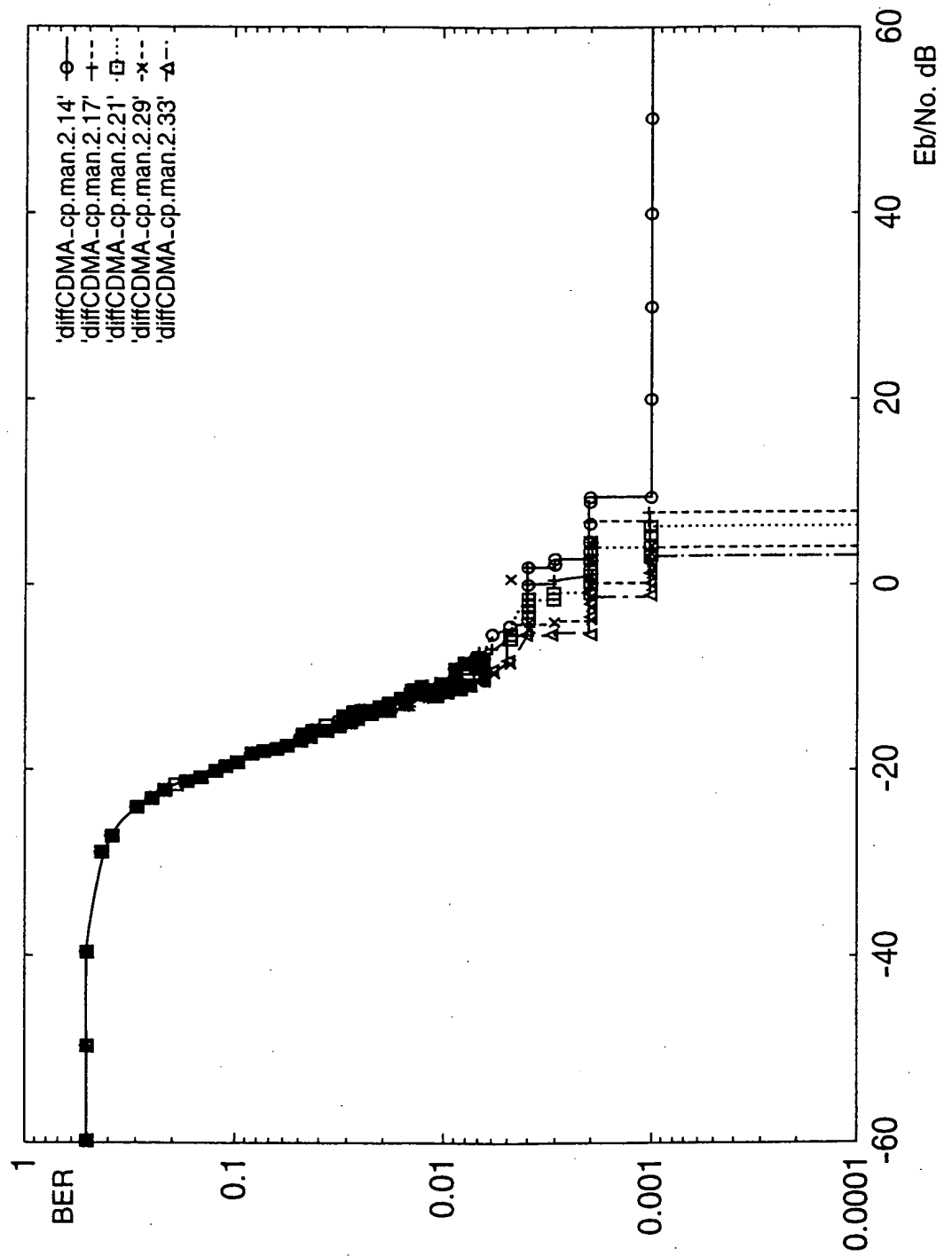




FIG. 21

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
PHASE CONTINUOUS DIFFERENTIAL CDMA TRANSMISSION SYSTEM





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FIG. 22

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
CHIP CONTINUOUS DIFFERENTIAL CDMA TRANSMISSION SYSTEM

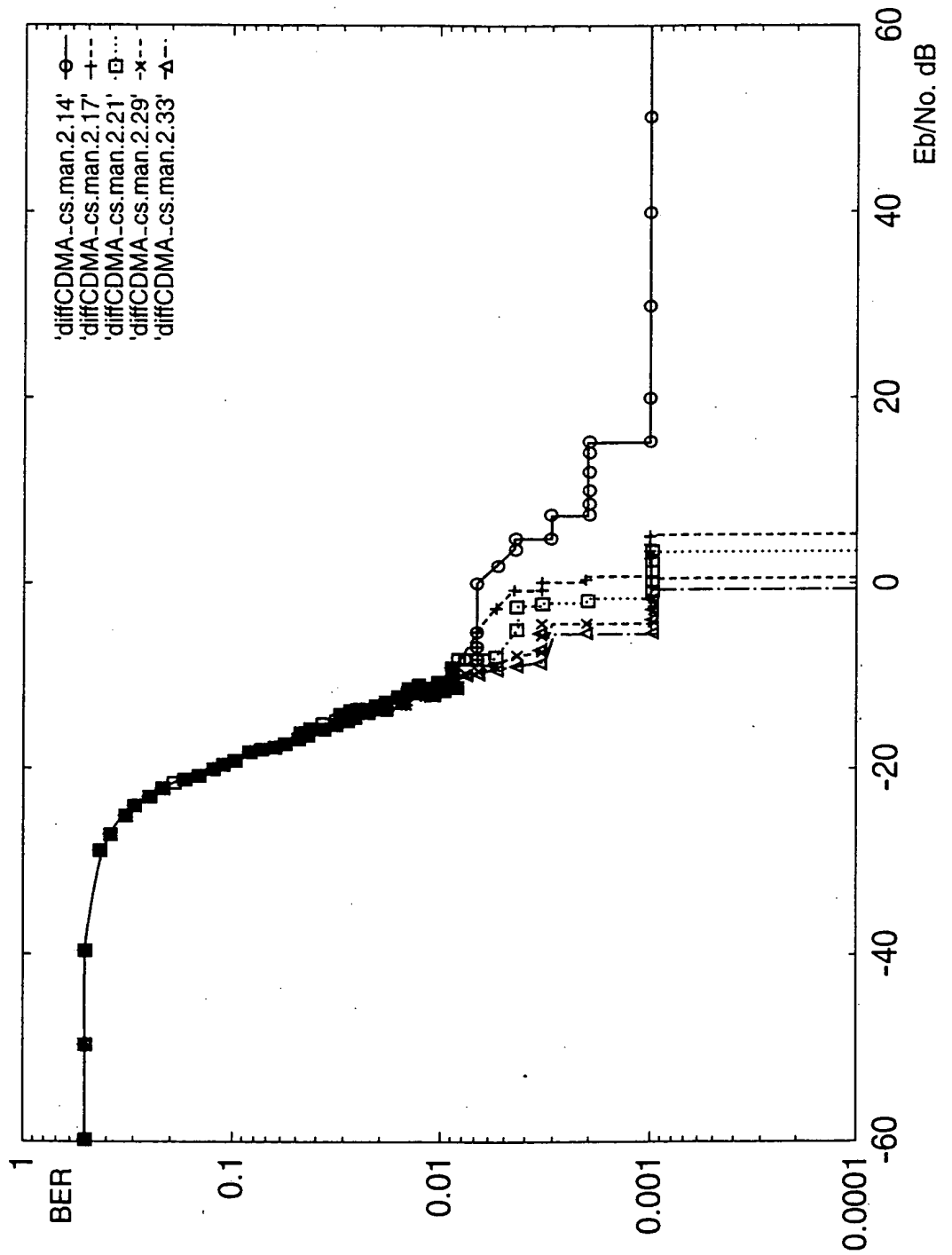


FIG. 23

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
PHASE/CHIP CONTINUOUS PILOT TRANSMISSION SYSTEM

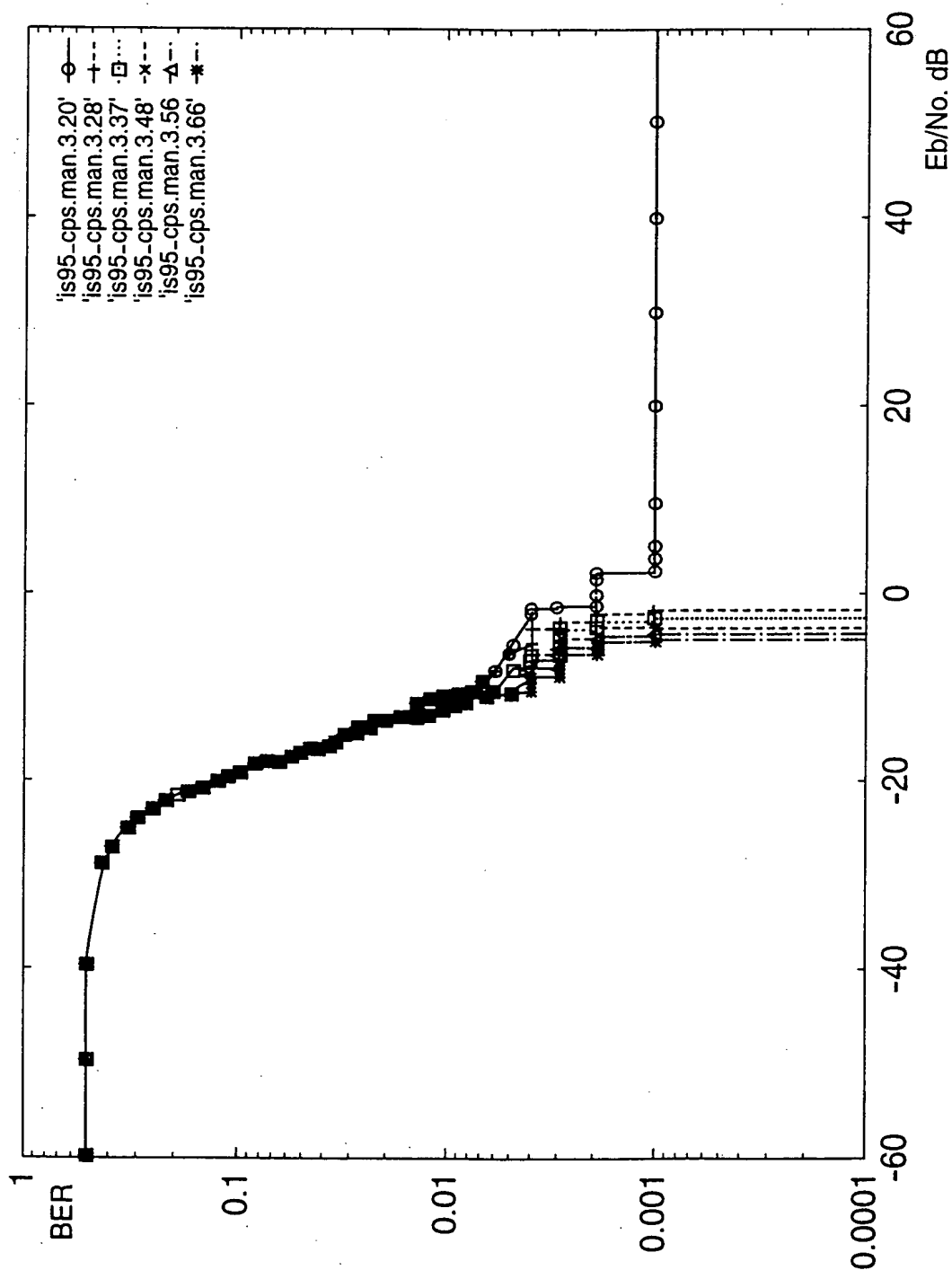




FIG.24

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
PHASE/CHIP CONTINUOUS DIFFERENTIAL CDMA TRANSMISSION SYSTEM

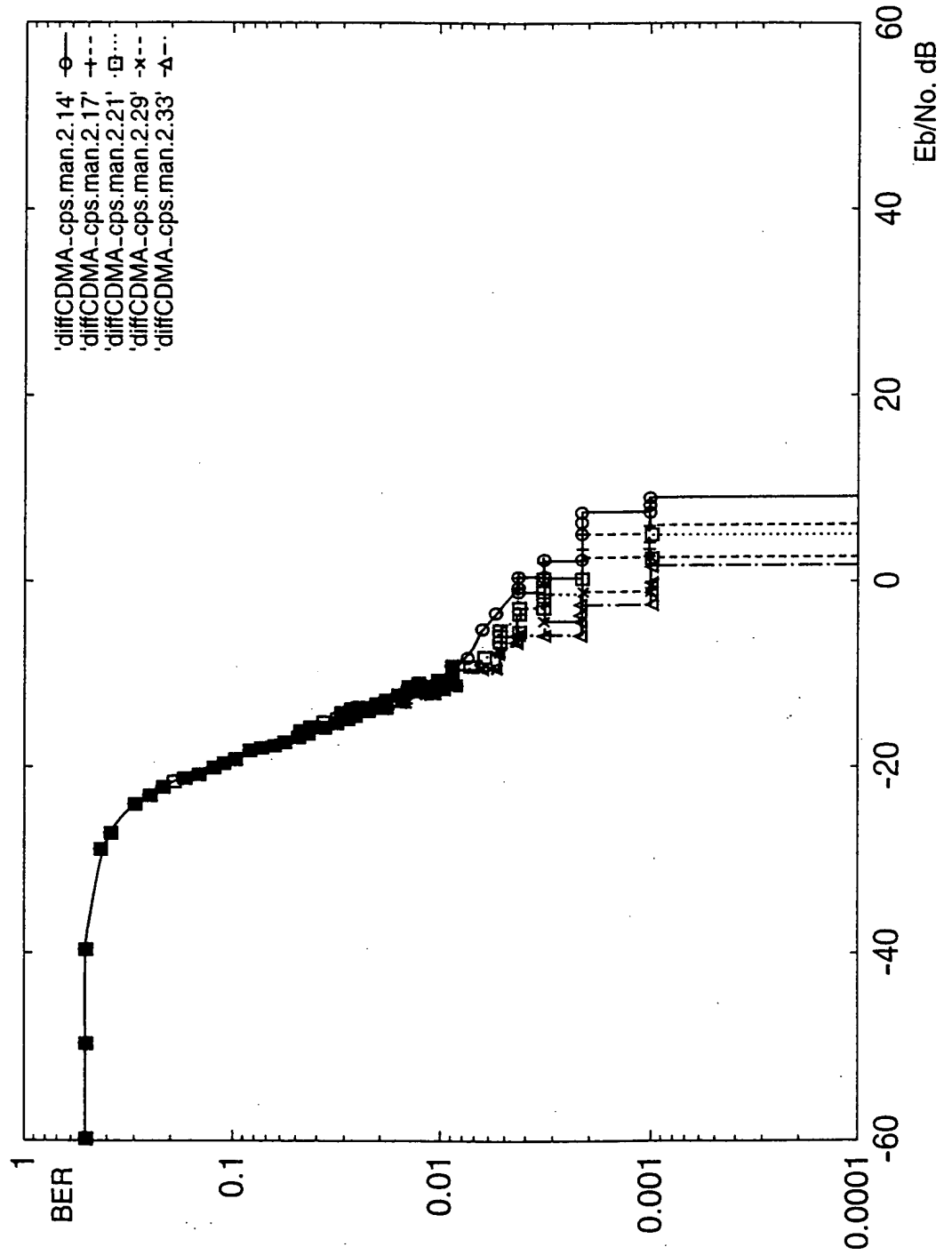
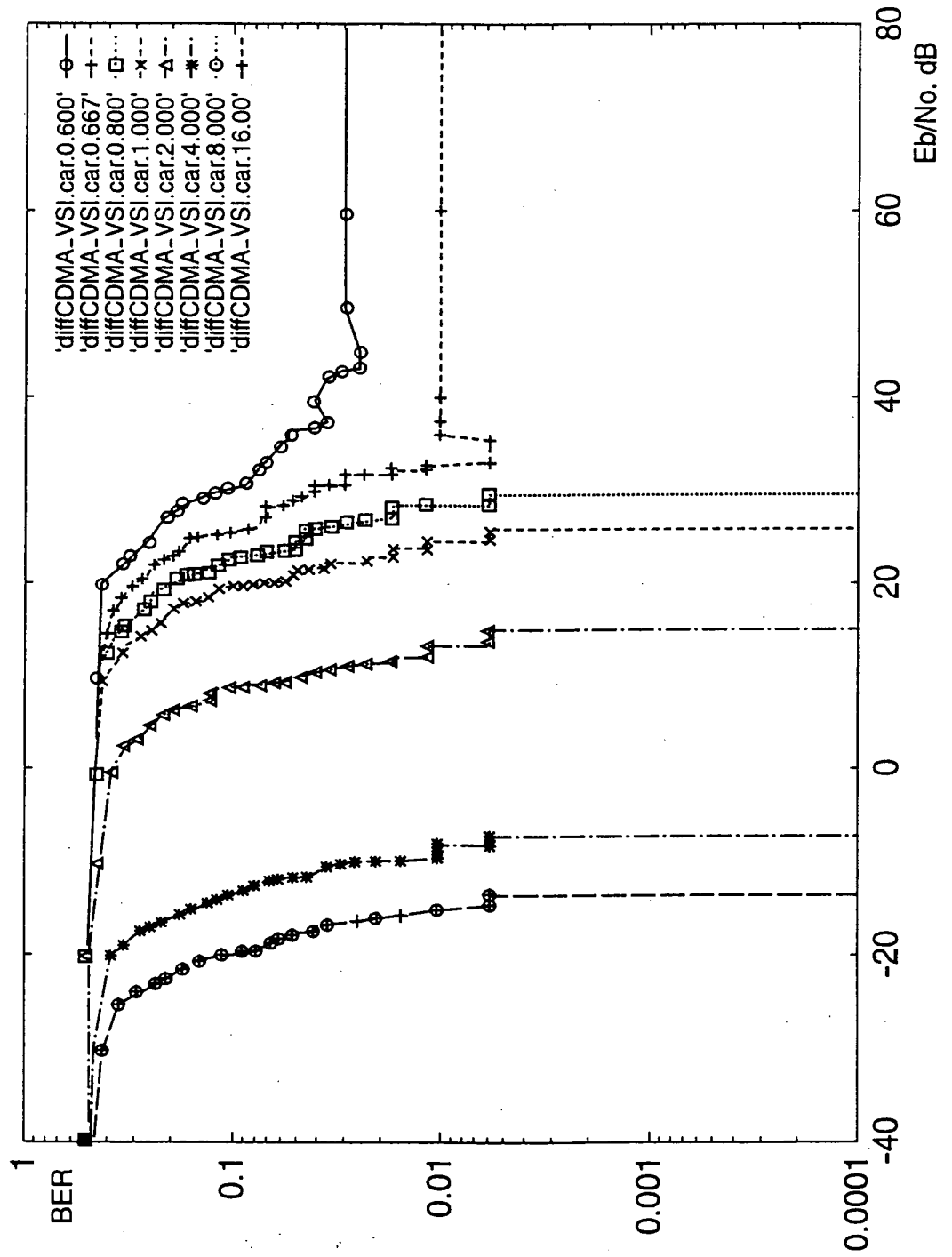


FIG. 25

TRANSMISSION CHARACTERISTICS IN AUTOMOBILE TELEPHONE MODE OF
VIRTUAL SEGMENT DIFFERENTIAL CDMA TRANSMISSION SYSTEM





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FIG. 26

EXAMPLE OF A CONFIGURATION OF THE CONVENTIONAL CDMA TRANSMITTER

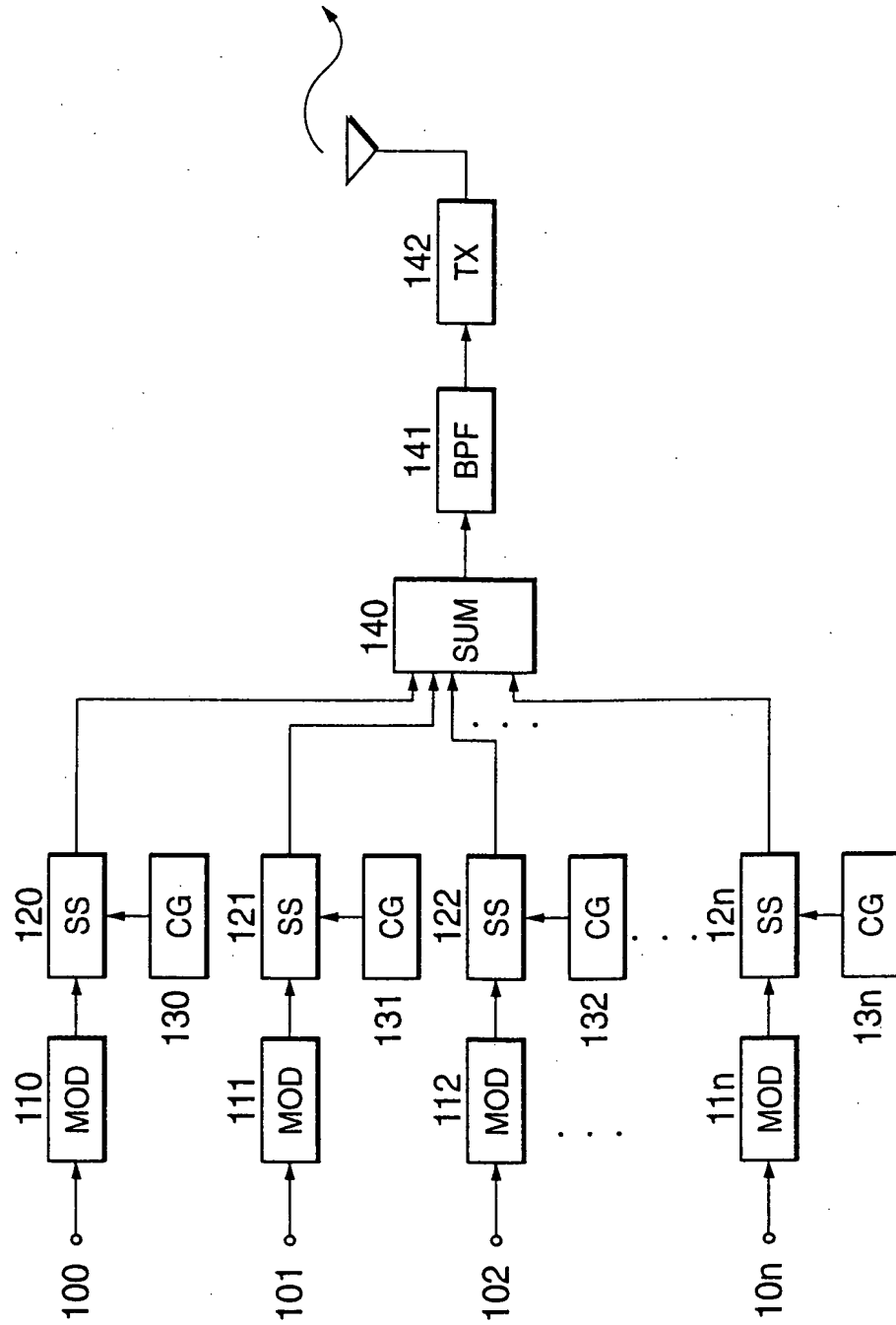


FIG. 27

SCHEMATIC VIEW OF PRIMARY MODULATED WAVE AND SYMBOL STRUCTURE

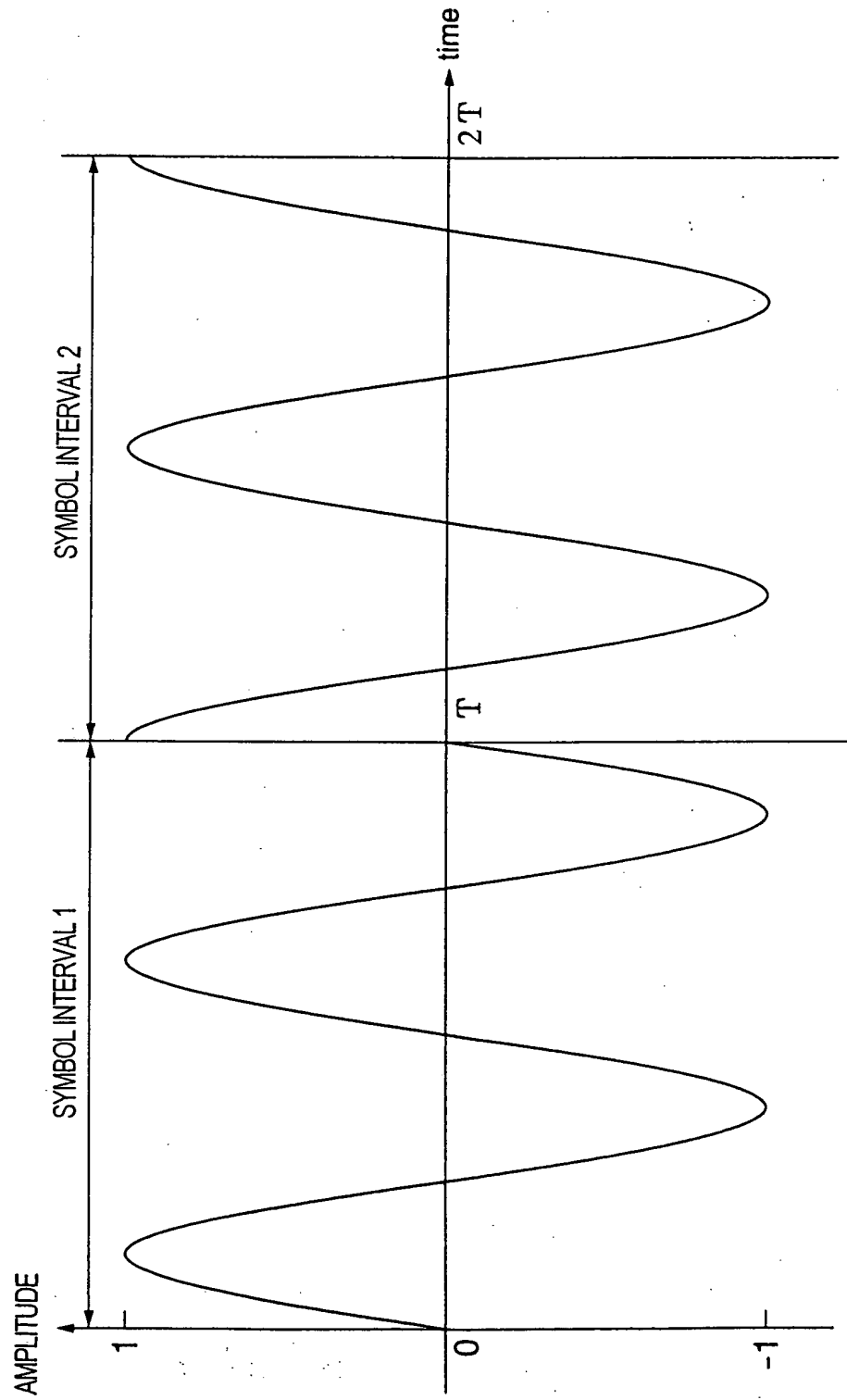


FIG. 28

EXAMPLE OF QPSK BIT CONSTELLATION

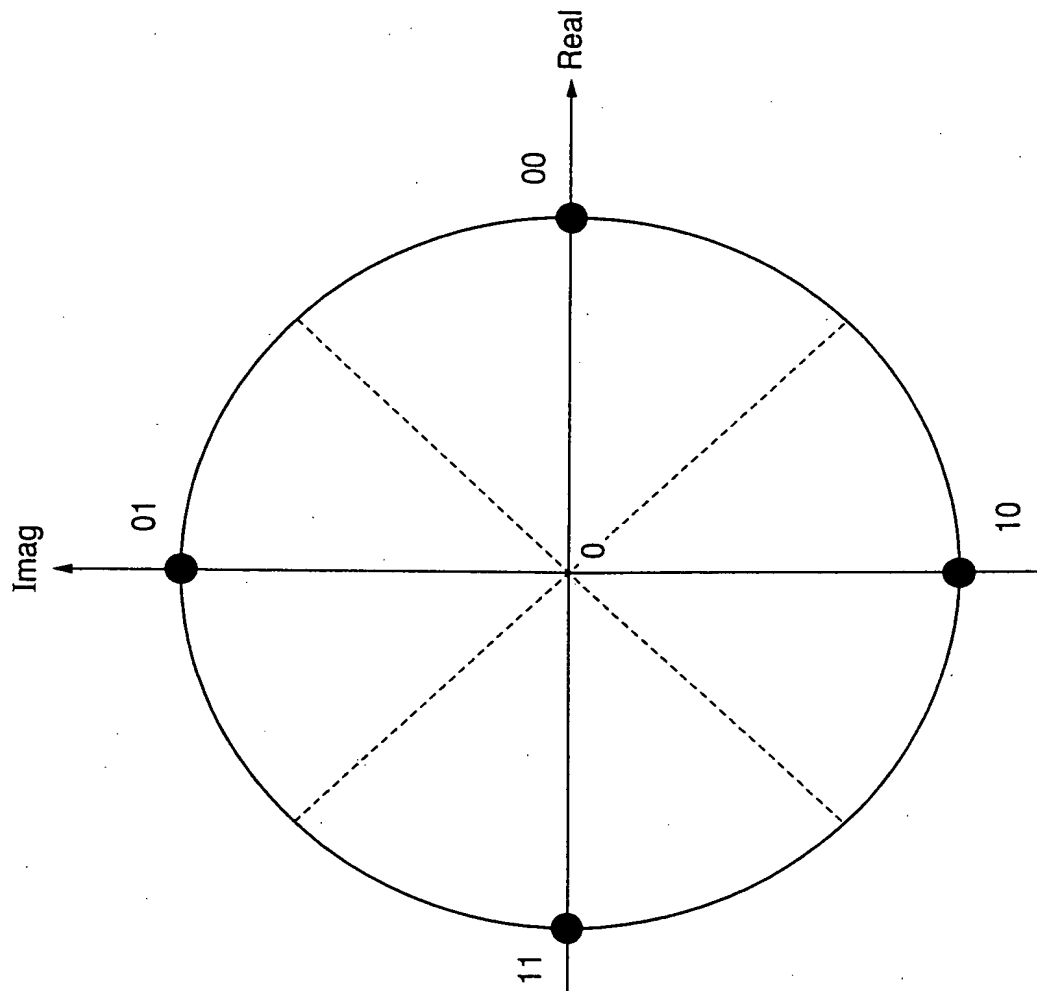


FIG. 29

EXAMPLE OF $\pi/4$ -SHIFTED QPSK BIT CONSTELLATION

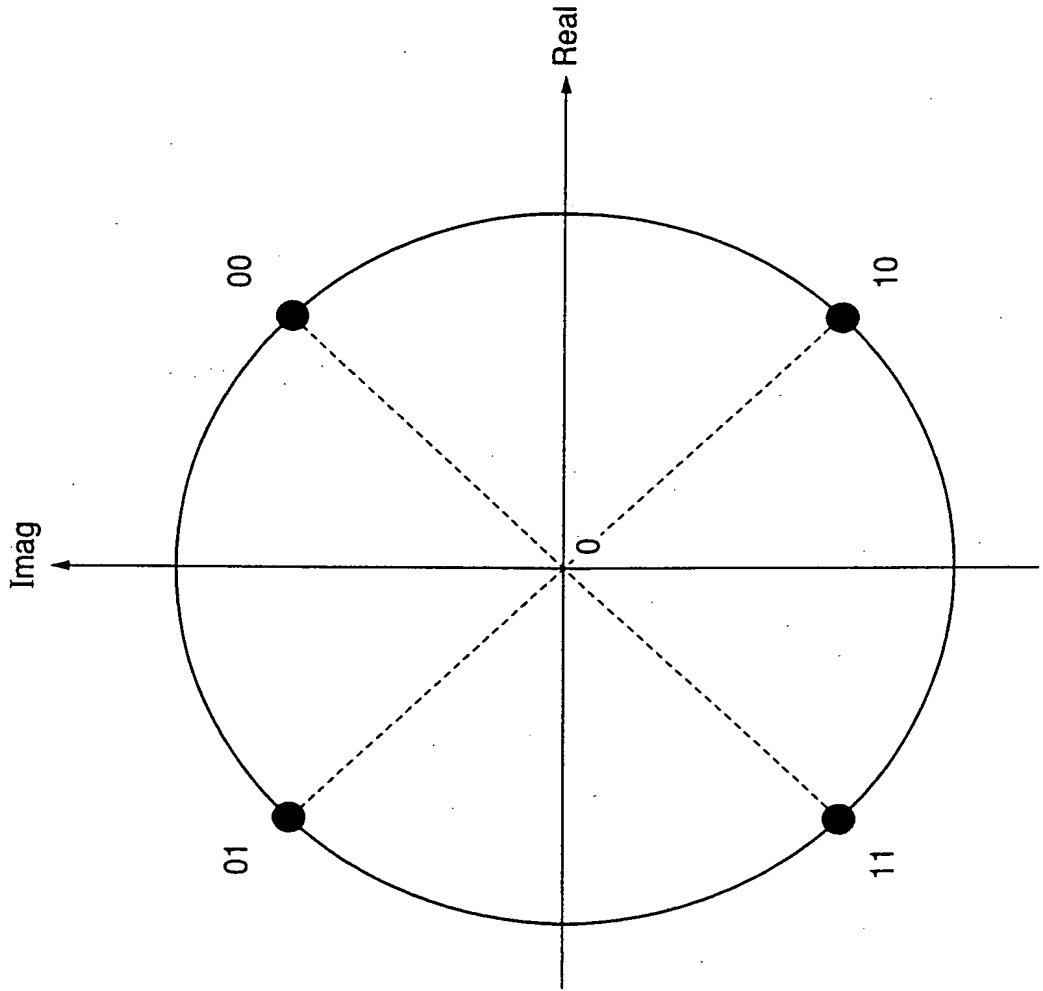


FIG. 30

EXAMPLE OF SEGMENT STRUCTURE IN A SYMBOL INTERVAL OF PRIMARY MODULATED WAVE

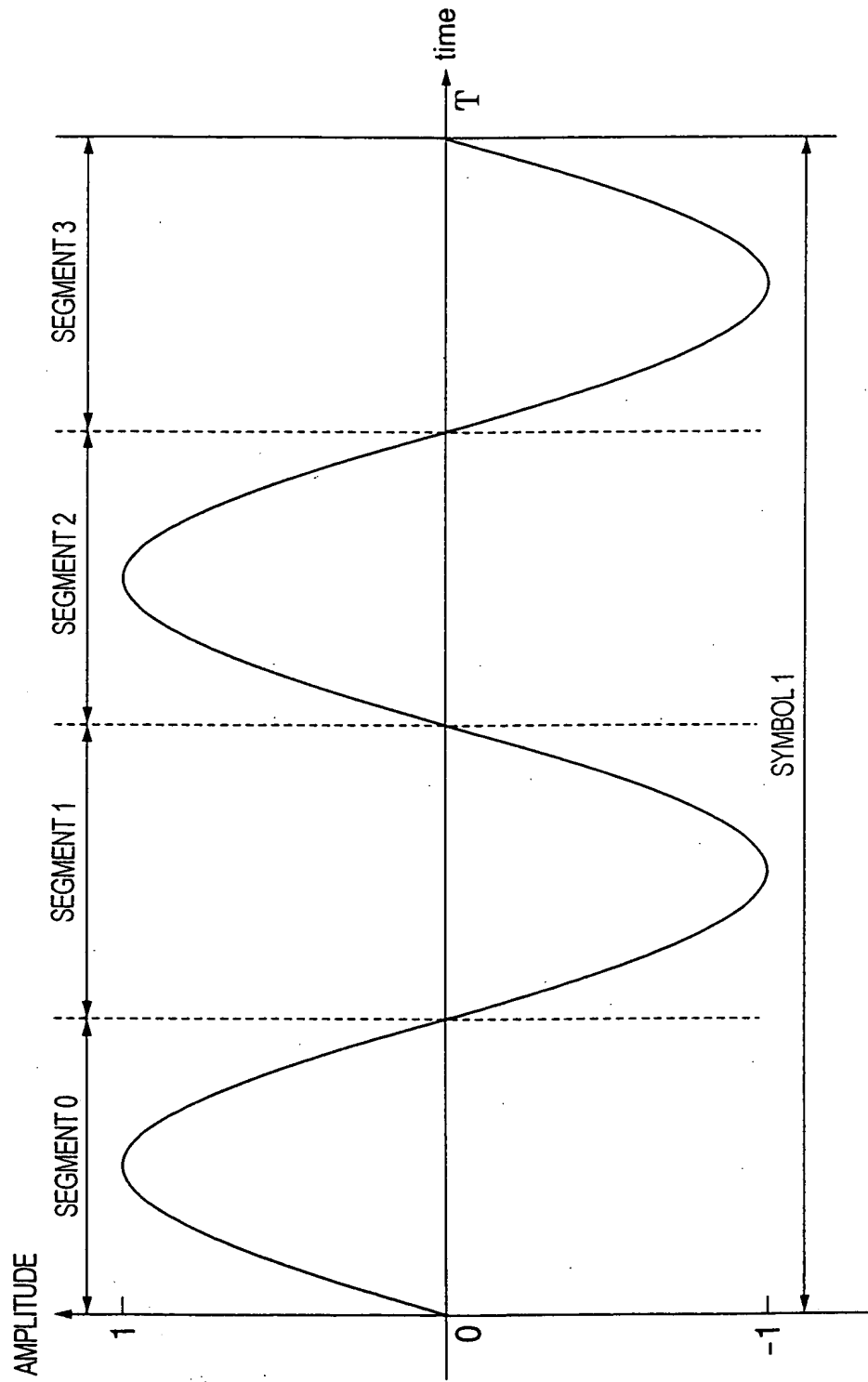


FIG. 31

EXAMPLE OF CHIP STRUCTURE IN A SEGMENT INTERVAL OF PRIMARY MODULATED WAVE

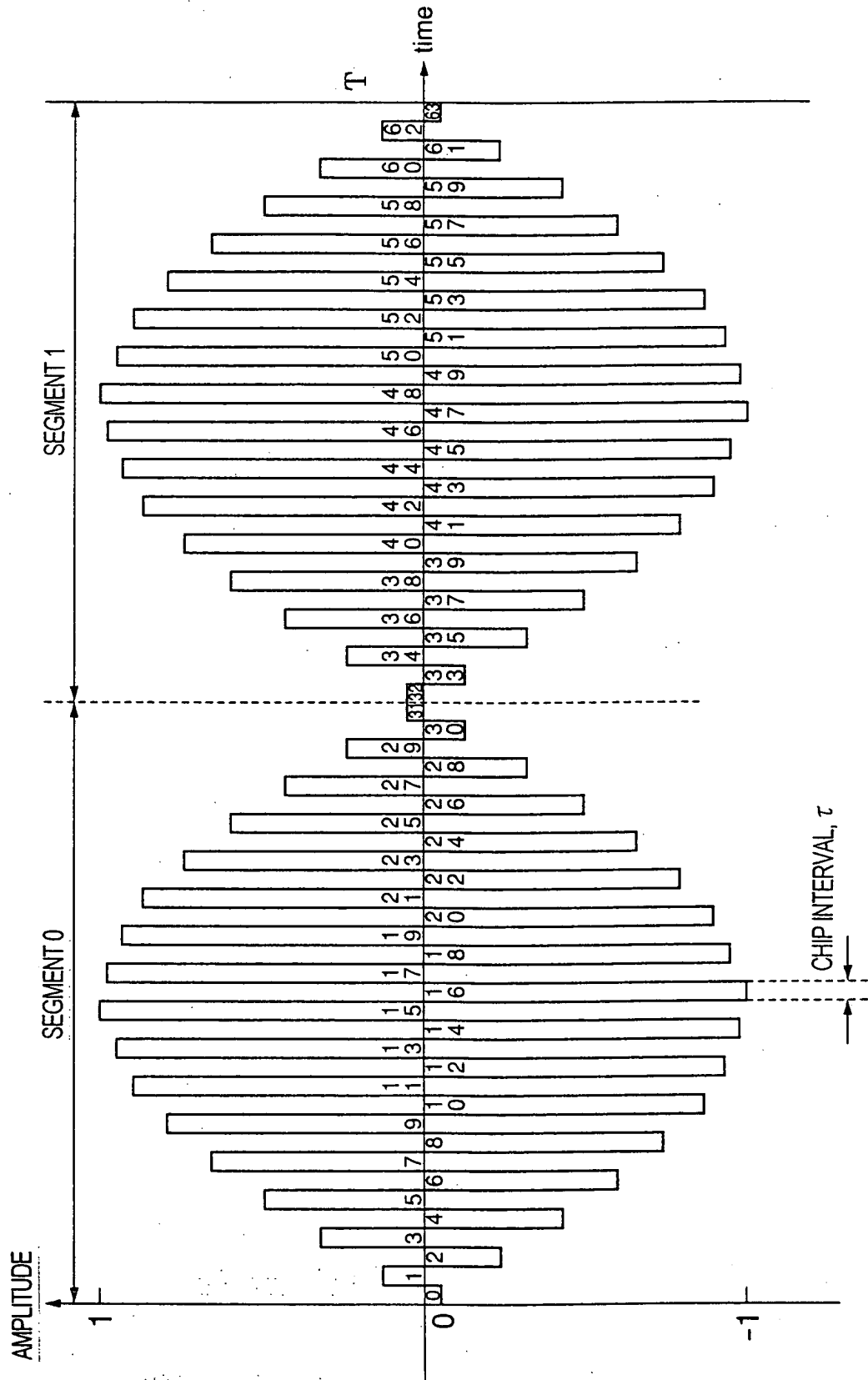


FIG. 32

EXAMPLE OF A CONFIGURATION OF THE CONVENTIONAL CDMA RECEIVER

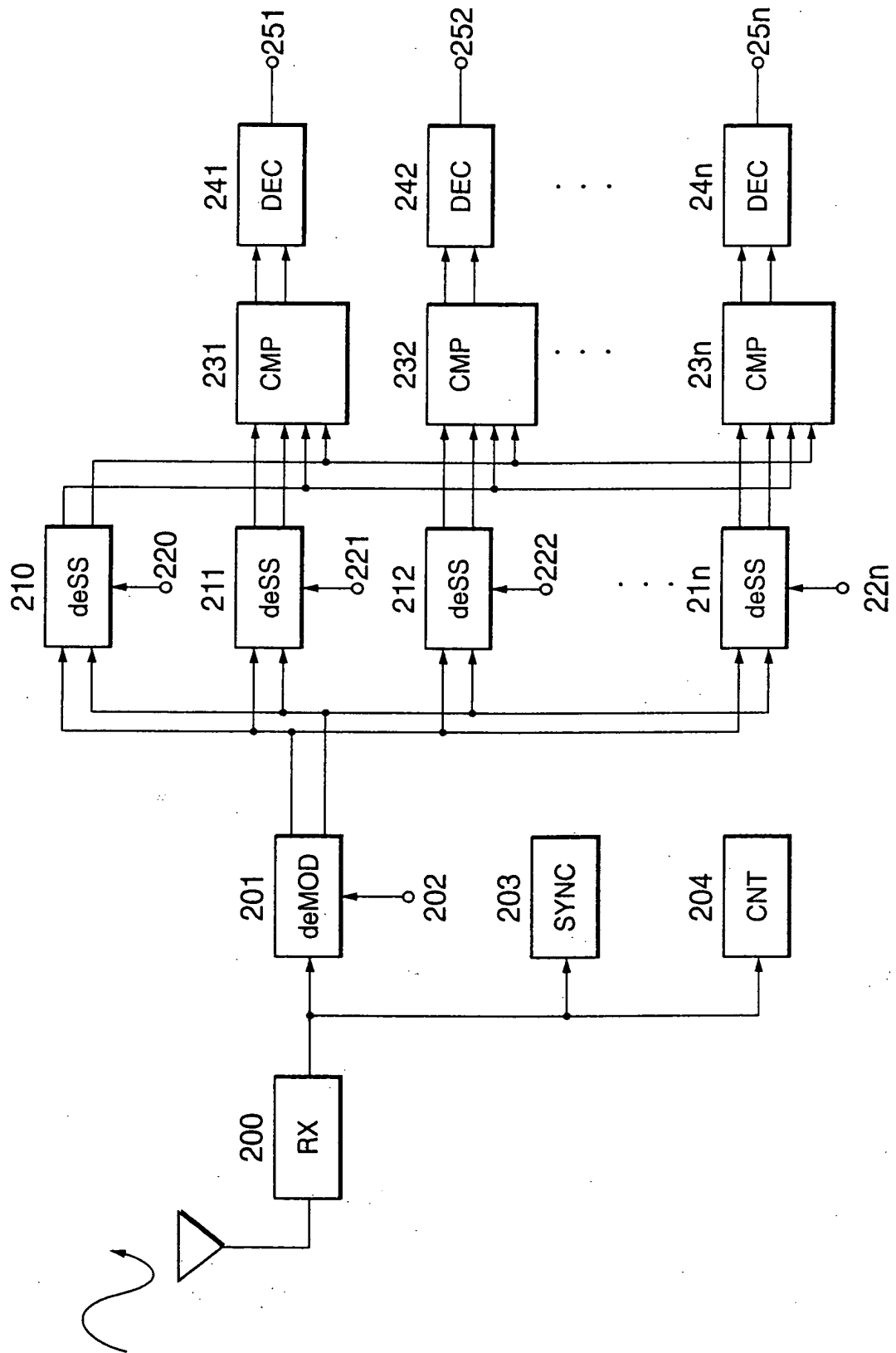


FIG. 34

EXAMPLE OF A DETAILED CONFIGURATION OF DESPREADING CIRCUIT (deSS)

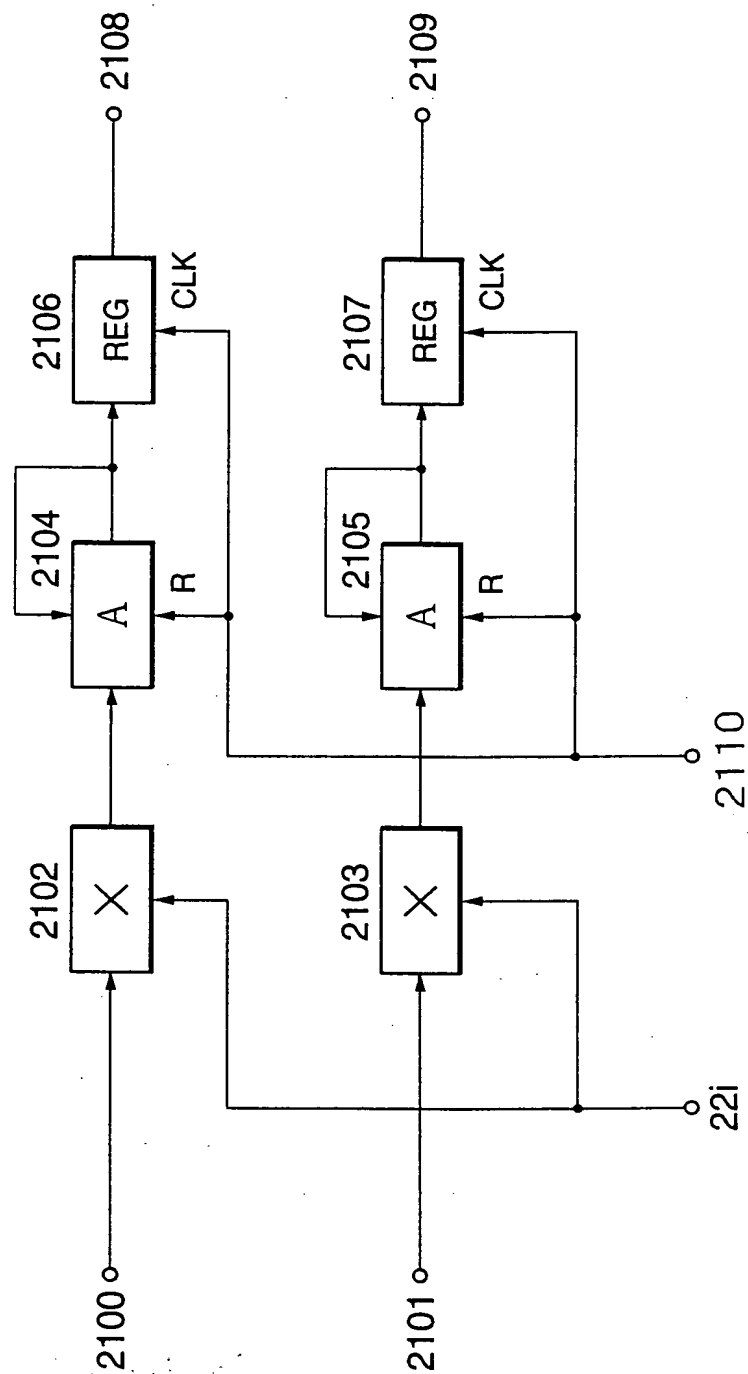


FIG. 35

EXAMPLE OF A DETAILED CONFIGURATION OF PHASE CORRECTION CIRCUIT (CMP)

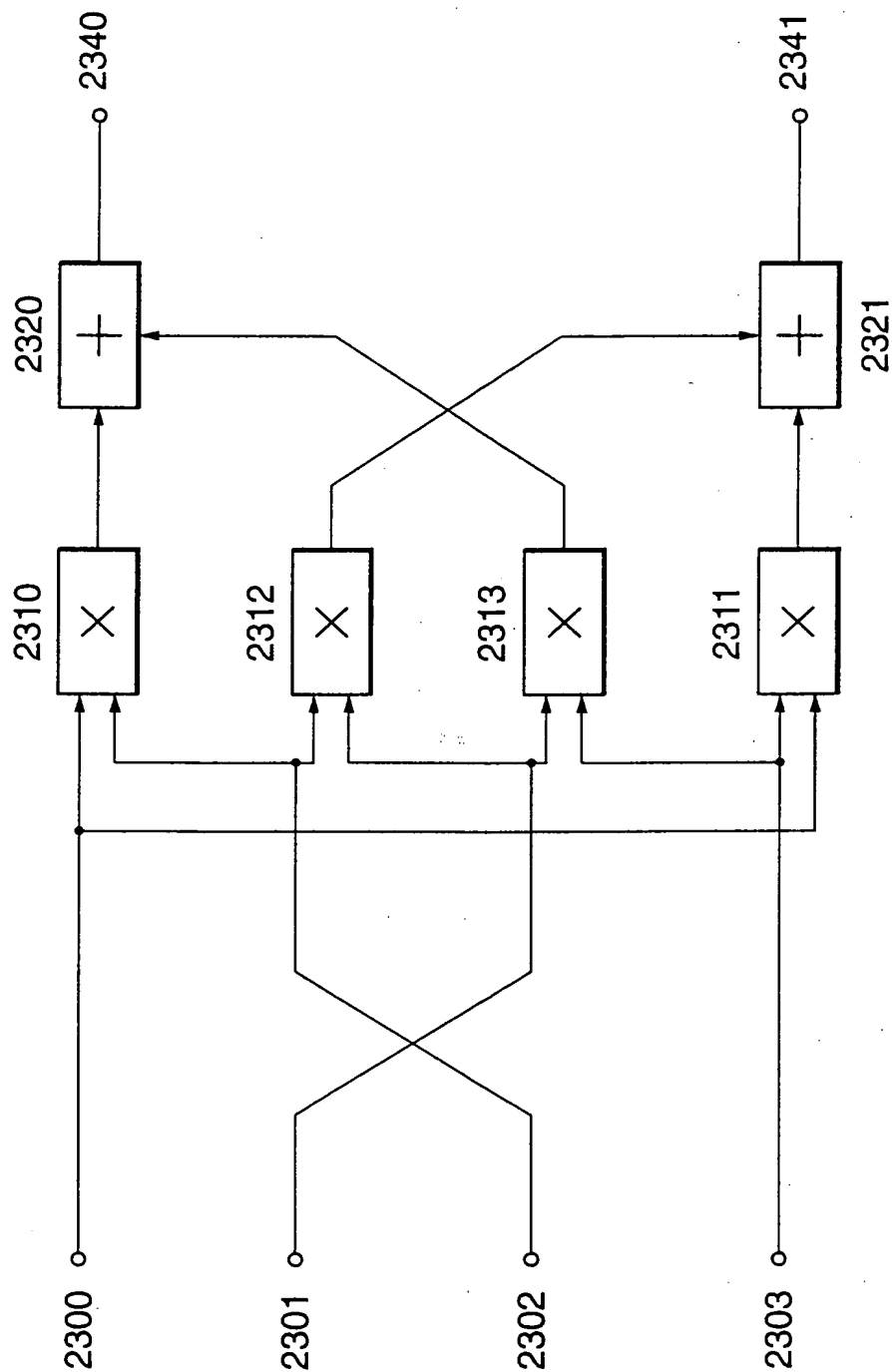




FIG. 36

TRANSMISSION CHARACTERISTICS IN STATIONARY TELEPHONE MODE OF THE CONVENTIONAL SYSTEM

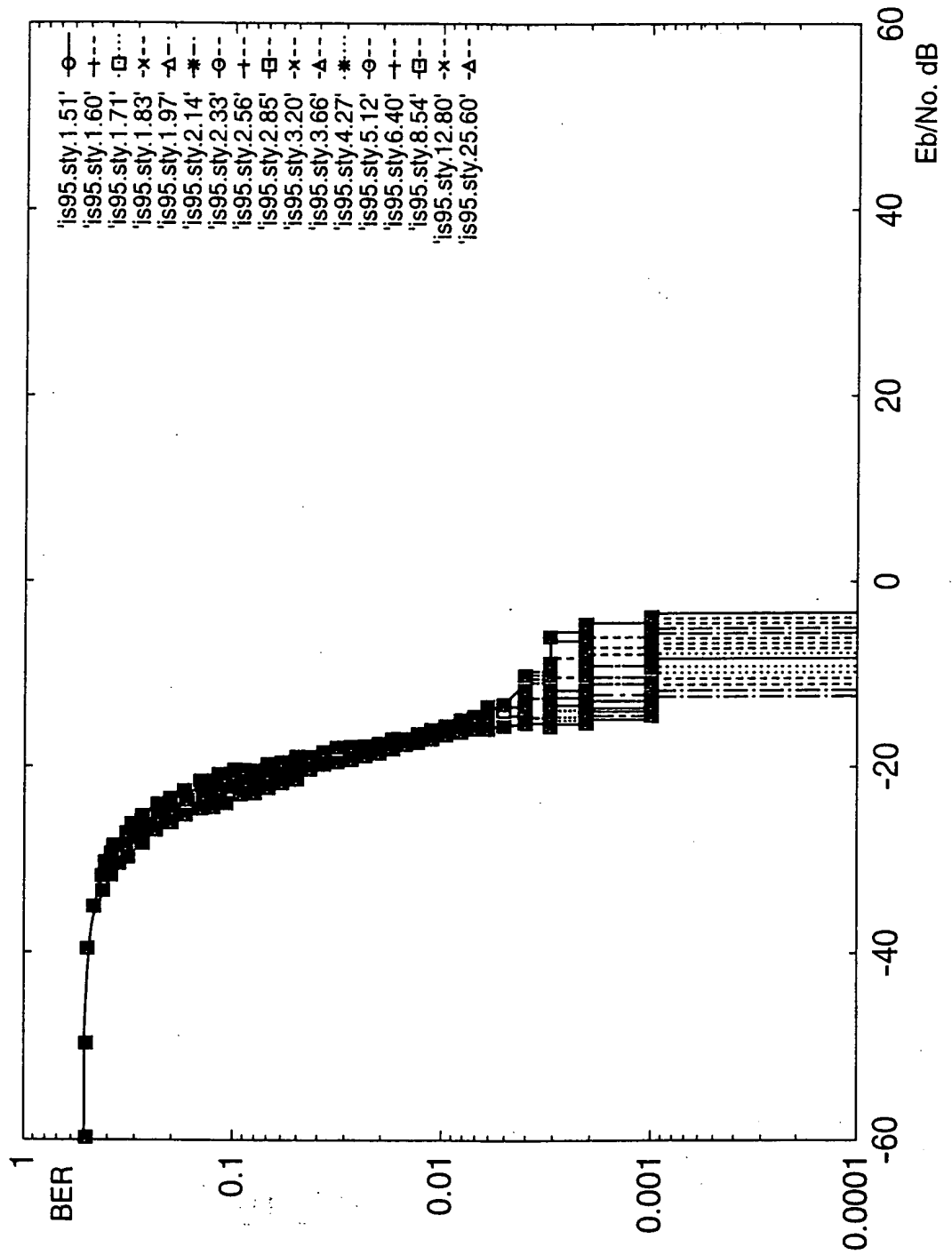




FIG. 37

TRANSMISSION CHARACTERISTICS IN PEDESTRIAN TELEPHONE MODE OF
THE CONVENTIONAL SYSTEM

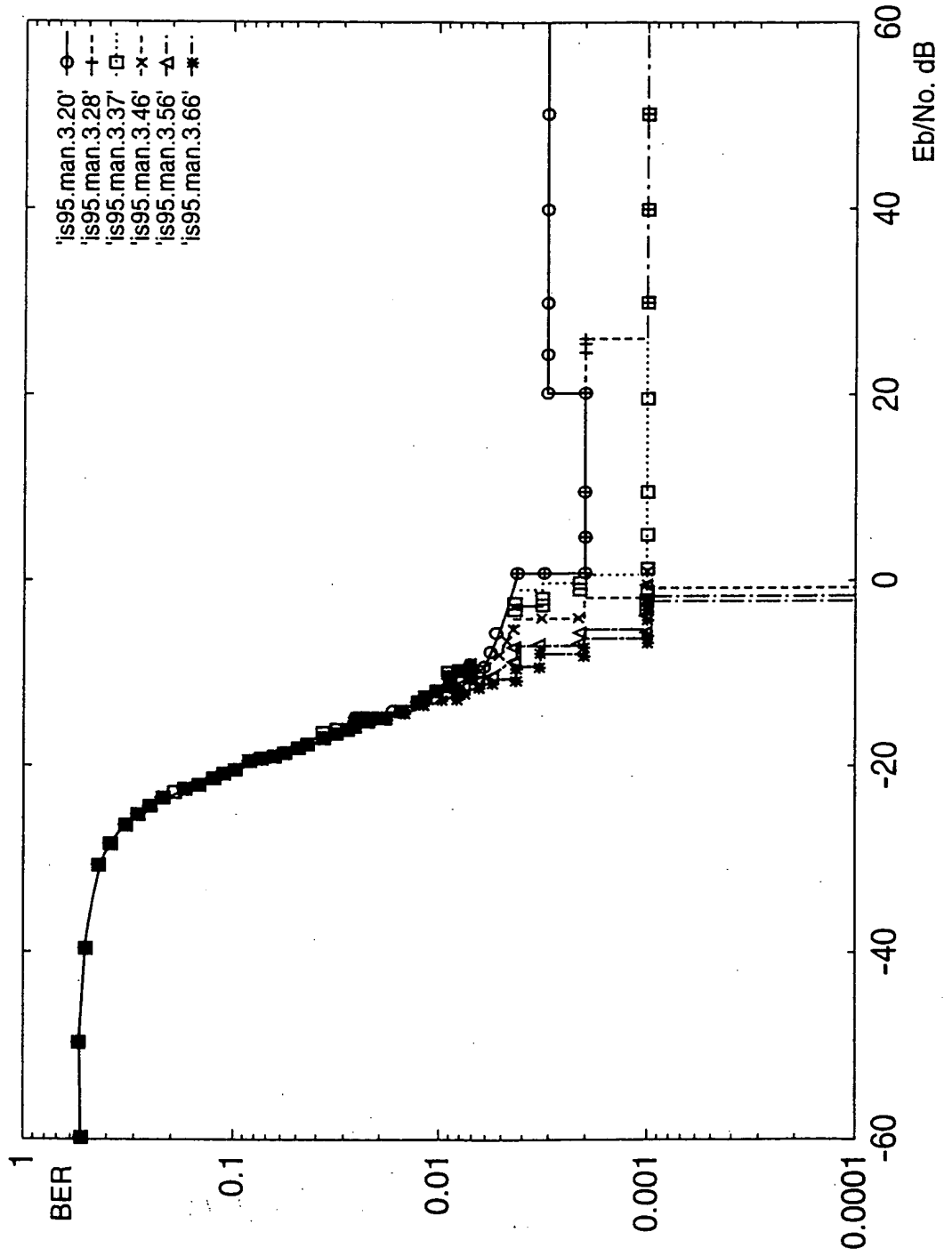




FIG.38

TRANSMISSION CHARACTERISTICS IN AUTOMOBILE TELEPHONE MODE OF THE CONVENTIONAL SYSTEM

